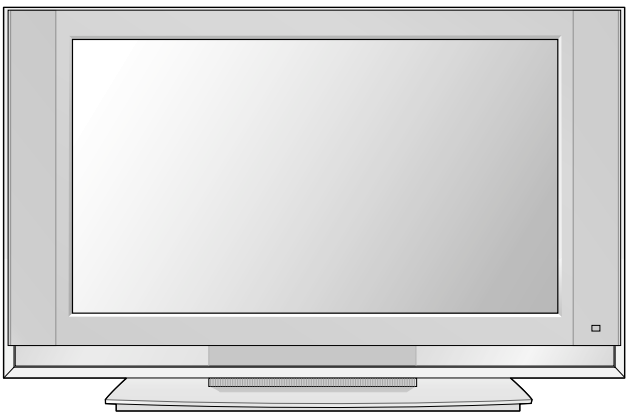
website:http://biz.LGservice.com
e-mail:http://www.LGEservice.com/techsup.html

LCD TV
SERVICE MANUAL

CHASSIS : AL-03HA

MODEL : DU-42LZ30

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



CONTENTS

CONTENTS 2

PRODUCT SAFETY 3

SPECIFICATION 6

ADJUSTMENT INSTRUCTION 9

SVC REMOTE CONTROLLER.....12

TROUBLE SHOOTING.....13

BLOCK DIAGRAM.....16

WIRING DIAGRAM.....18

EXPLODED VIEW 19

EXPLODED VIEW PARTS LIST.....20

REPLACEMENT PARTS LIST 21

SVC. SHEET .....

SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in **handling the Picture Tube.** Do not lift the Picture tube by it's Neck.

X-RAY Radiation

Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the Picture Tube.
For continued X-RAY RADIATION protection, the replacement tube must be the same type tube as specified in the Replacement Parts List.

To determine the presence of high voltage, use an accurate high impedance HV meter.

Adjust brightness, color, contrast controls to minimum.
Measure the high voltage.
The meter reading should indicate
23.5 ± 1.5KV: 14-19 inch, 26 ± 1.5KV: 19-21 inch,
29.0 ± 1.5KV: 25-29 inch, 30.0 ± 1.5KV: 32 inch
If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

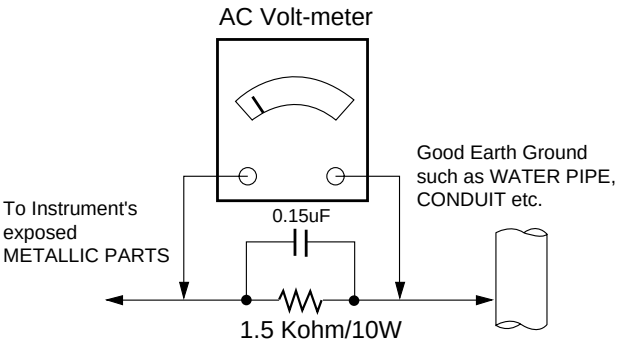
Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)
With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)
Plug the AC cord directly into the AC outlet.
Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
   a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
   b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
      CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
   d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.
   Do not test high voltage by "drawing an arc".
3. Discharge the picture tube anode only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemicals on or near this receiver or any of its assemblies.
5. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in not required.
6. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
   Always remove the test receiver ground lead last.
9. *Use with this receiver only the test fixtures specified in this service manual.*
   CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices.* Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500˚F to 600˚F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle.
   Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
   a. Allow the soldering iron tip to reach normal temperature. (500˚F to 600˚F)
   b. Heat the component lead until the solder melts.
   c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
      CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach a normal temperature (500˚F to 600˚F)
   b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.

c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
CAUTION: Work quickly to avoid overheating the circuit board printed foil.

d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor
Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device
Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor
Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. Application range

This specification is applied to AL-03HA chassis.

2. Requirement for Test

Testing for standard of each part must be followed in below condition.

(1) Temperature: 25°C ± 5°C
(2) Humidity: 65% ± 10%
(3) Power: Standard input voltage (AC 100-260V, 50/60Hz)
(4) Measurement must be performed after heat-run more than 15min.
(5) Adjusting standard for this chassis is followed a special standard.

3.General Specification

No.	Item	Specification	Remark
1	Receiving system	ATSC/64 & 256 QAM/NTSC-M	SILM-VSB
2	Available Channel	VHF : 02 ~ 13 UHF : 14 ~ 69 CATV : 01 ~ 135 DTV: 02 ~ 69	
3	Input voltage	AC 100 - 260V/ 50Hz,60HZ	
4	Screen Size	42 inch wide	
5	Aspect Ratio	16:9	
6	Tuning System	FS	
7	LCD Module	LC420W02-C5-K1(1280 x 768)	LG Philips LCD
8	Operting environment	1)Temp : 0 ~ 40 deg 2)Humidity : ~ 80%	
9	Storage Environment	1)Temp : -20 ~ 60 deg 2)Humidity : ~ 85%	

4.Component Video Input(Y, C_B/P_B, C_R/P_R)

NO	Resoluton	H-freq(kHz)	V-freq(kHz)	Pixel clock	Proposed
1	640 x 480	15.73	60.00		SDTV. DVD 480I
2	704 x 480	31.47	59.94		SDTV 480P
3	1280 x 720	45.00	60.00		HDTV 720P
4	1280 x 720	44.96	59.94		HDTV 720P
5	1920 x 1080	33.75	60.00		HDTV 1080I
6	1920 x 1080	33.72	59.94		HDTV 1080I

5.RGB Input(PC/DTV)

NO	Resoluton	H-freq(kHz)	V-freq(kHz)	Pixel clock	Proposed	
	PC					DDC
7	640 x 350	31.468	70.09	25.17	EGA	O
8	640 x 350	37.861	85.08	31.50	EGA	O
9	720 x 400	31.469	70.08	28.32	DOS	O
10	720 x 400	37.927	85.03	35.50	DOS	O
11	640 x 480	31.469	59.94	25.17	VESA(VGA)	O
12	640 x 480	37.861	72.80	31.50	VESA(VGA)	O
13	640 x 480	37.500	75.00	31.50	VESA(VGA)	O
14	640 x 480	43.269	85.00	36.00	VESA(VGA)	O
15	800 x 600	35.156	56.25	36.00	VESA(SVGA)	O
16	800 x 600	37.879	60.31	40.00	VESA(SVGA)	O
17	800 x 600	48.077	72.18	50.00	VESA(SVGA)	O
18	800 x 600	46.875	75.00	49.50	VESA(SVGA)	O
19	800 x 600	53.674	85.06	56.25	VESA(SVGA)	O
20	1024 x 768	48.363	60.00	65.00	VESA(XGA)	O
21	1024 x 768	56.476	70.06	75.00	VESA(XGA)	O
22	1024 x768	60.023	75.02	78.75	VESA(XGA)	O
	DTV					
23	704 x 480	31.47	59.94		SDTV 480P	
24	1280 x720	45.00	60.00		HDTV 720P	
25	1280 x 720	44.96	59.94		HDTV 720P	
26	1920 x 1080	33.75	60.00		HDTV 1080I	
27	1920 x 1080	33.72	59.94		HDTV 1080I	

6.DVI Input(PC/DTV)

NO	Resoluton	H-freq(kHz)	V-freq(kHz)	Pixel clock	Proposed	
	PC					DDC
28	640 x 350	31.468	70.09	25.17	EGA	O
29	640 x 350	37.861	85.08	31.50	EGA	O
30	720 x 400	31.469	70.08	28.32	DOS	O
31	720 x 400	37.927	85.03	35.50	DOS	O
32	640 x 480	31.469	59.94	25.17	VESA(VGA)	O
33	640 x 480	37.861	72.80	31.50	VESA(VGA)	O
34	640 x 480	37.500	75.00	31.50	VESA(VGA)	O
35	640 x 480	43.269	85.00	36.00	VESA(VGA)	O
36	800 x 600	35.156	56.25	36.00	VESA(SVGA)	O
37	800 x 600	37.879	60.31	40.00	VESA(SVGA)	O
38	800 x 600	48.077	72.18	50.00	VESA(SVGA)	O
39	800 x 600	46.875	75.00	49.50	VESA(SVGA)	O
40	800 x 600	53.674	85.06	56.25	VESA(SVGA)	O
41	1024 x 768	48.363	60.00	65.00	VESA(XGA)	O
42	1024 x 768	56.476	70.06	75.00	VESA(XGA)	O
43	1024 x768	60.023	75.02	78.75	VESA(XGA)	O
	DTV					
44	704 x 480	31.47	59.94		SDTV 480P	
45	1280 x720	45.00	60.00		HDTV 720P	
46	1280 x 720	44.96	59.94		HDTV 720P	
47	1920 x 1080	33.75	60.00		HDTV 1080I	
48	1920 x 1080	33.72	59.94		HDTV 1080I	

ADJUSTMENT INSTRUCTION

1. Scope of Application

These specifications are applied to all LCD TV models employing an AL-03HA chassis.

2. Instruction

(1) Since this chassis is insulated from the power supply, it is not mandatory to use an insulated-core transformer. But for the protection of adjustment devices, it is recommended to power up the chassis between the power line and the chassis input stage.

(2) Adjustment should be performed exactly in accordance with the instructed sequence.

(3) Unless otherwise specified, adjustment should be done at an ambient temperature 25° ±5°C and relative humidity of 65° ±10%.

(4) During adjustment, the power supply to the TV set should be maintained at 220V and 60Hz.

(5) Unless otherwise specified, heat-run the set by leaving it powered up for about 15 minutes before adjustment.

● During preliminary heat-run, the 100% White Pattern (CH 06) should be displayed (or '3. White Pattern' of Ez-Adjust).

● How to Get White Pattern

① Push ADJ KEY on the adjustment remote controller and enter Ez-Adjust.

② Select '3. White Pattern' with CH +/- KEY and push CONFIRM (■) KEY. Then the 100% Full White Pattern will appear.

* In this mode, you can heat run the set without a separate signal generator.

(Caution) If a static display is turned on for more than 20 minutes, particularly the in-house digital pattern (CH 13) or the cross hatch pattern (CH 09), care should be taken as an after-image may develop on the black level part of the screen.

3. Adjustment

(1) Download EDID (Extended Display Identification Data) and DDC (Display Data Channel).

(2) Adjust AD9883A-Set.

(3) Adjust color temperature (white balance).

(4) Adjust main and sub color.

4. Adjustment

4.1. Download EDID (Extended Display Identification Data) and DDC (Display Data Channel)

(1) Established by VESA, EDID is a function created to implement "Plug and Play" that sets and makes available user environments by allowing the PC and the monitor to automatically communicate and exchange data with other without requiring the user to directly give commands to either the PC or the monitor.

(2) EDID data for DVI of AL-03HA

EDID table =

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	01	01	01	01	01
10	03	0E	01	03	98	6E	3E	96	08	E8	AA	A1	57	49	9C	25
20	10	48	4B	AF	CE	00	31	4A	31	59	3B	D9	45	59	61	4F
30	01	01	01	01	01	40	C3	1E	00	20	41	00	20	30	10	60
40	13	00	4C	6C	42	00	00	1E	00	00	00	FC	00	4C	47	20
50	4C	43	44	20	20	20	20	20	20	0A	00	00	00	FD	00	38
60	55	1E	3E	08	00	0A	20	20	20	20	20	20	00	00	00	FC
70	00	44	55	2D	34	32	4C	5A	33	30	20	20	20	20	00	3C

(3) EDID data for RGB of AL-03HA

EDID table =

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	01	01	01	01	01
10	03	0E	01	03	18	6E	3E	96	08	E8	AA	A1	57	49	9C	25
20	10	48	4B	AF	CE	00	31	4A	31	59	3B	D9	45	59	61	4F
30	01	01	01	01	01	40	C3	1E	00	20	41	00	20	30	10	60
40	13	00	4C	6C	42	00	00	1E	00	00	00	FC	00	4C	47	20
50	4C	43	44	20	20	20	20	20	20	0A	00	00	00	FD	00	38
60	55	1E	3E	08	00	0A	20	20	20	20	20	20	00	00	00	FC
70	00	55	55	2D	34	32	4C	5A	33	30	20	20	20	20	00	BC

4-2. Adjust AD9883A-Set

4.2.1 Overview

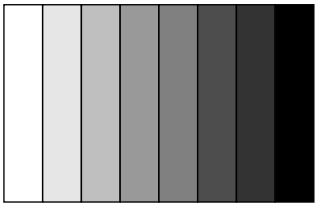
AD9883A-Set adjustment is a function to automatically set the optimum black level and gain in the analog-to-digital converter and compensate for RGB deviation.

4.2.2 Devices Used

Adjustment remote controller and 801GF (802B, 802F, 802R) pattern generator.

The latter should be capable of outputting the 720P vertical 100% color bar pattern as shown below and its output level should be calibrated at 0.7± 0.1Vp-p.

Be careful not to confuse the said pattern with the 75% color bar in the neighborhood.



<Fig. 2> Adjustment pattern: 720P vertical color bar

4.2.3 Method of Adjustment

1) Input the 720P mode 100% vertical color bar pattern (TVBAR-100) that can be supported at a component input terminal, select Component 1 or Component 2 for input, and select an appropriate display.
2) Wait one second or longer after signal reception, get into 'Ez-Adjust' by pushing ADJ KEY on the adjustment remote controller, select 1.AD9883-Set, and push +KEY.
   Adjustment will be carried out automatically.
3) When adjustment is completed normally, the message 'AD9883－Set' will be displayed. Otherwise, 'AD9883A Setup Error' will appear instead.
4) If adjustment is not completed normally, repeat after checking the pattern or adjustment conditions.
5) When adjustment is completed, escape adjustment mode by pushing the ADJ KEY.

4.3 Adjust Color Temperature (White Balance)

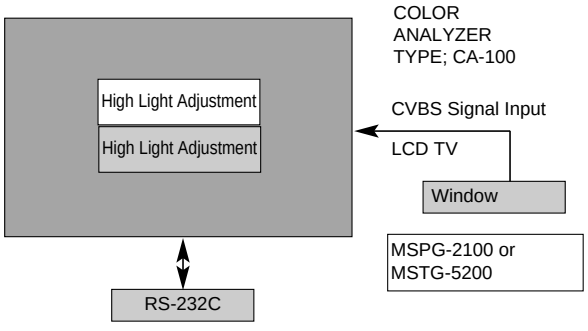
(1) Devices Used

Color analyzer (CA-100 or equivalent)

Automatic adjustment device (Necessary for automatic adjustment. Should be compatible with RS-232C communication.)

AV pattern generator

(2) Instrument Interconnection (For automatic adjustment)



<Fig .2>

(3) Method of Adjustment

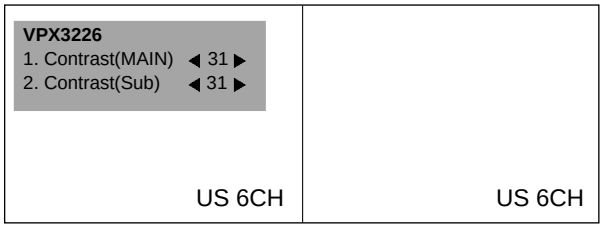
- Perform zero calibration on CA-100, which should remain perfectly attached to the LCD module surface during adjustment
- Manual adjustment should be done in the following sequence.

1) Press the Power On remote controller key.
2) Press the IN-START remote controller key. Then, select '4. UART Control' to see if the baud rate is 115200.
3) Press the ADJ remote controller key to enter the 'Ez Adjust' mode.
4) Select '7. WHITE PATTERN' using CH + / - key and press the OK key for a heat run longer than 15 minutes.
5) The AV Pattern Generator supplies the Window pattern signal. (external input mode)
6) Set the image control state to "Comfortable image."
7) Put the sensor close to the center of the screen and press the ADJ remote controller key. Then, select '5. White-Balance' in 'Ez Adjust' and press the right arrow key (▶) to start the adjustment mode.
8) Adjust High Light using R Gain / B Gain.
9) Use the volume + or – key for adjustment.
   (G Gain: 127 / R Cut: 63 are the fixed value.)
   Brightness value: High Light = 150± 10 Cd
   Color coordinate: X = 0.271 ±0.003, Y = 0.279 ±0.003
   Color temperature: 12,000° K ±500° K
10) Press the OK (■) key to move to the 'Ez Adjust' screen when adjustment is completed. Then, press the ADJ key to exit from the adjustment mode.

4.4 Adjust Main and Sub Color

This adjustment will reduce color difference between the main and sub displays in PIP, POP, and SPLIT screen modes.

1) Input the in-house signal, wait one second or longer after signal reception, get to 'Ez-Adjust' by pushing ADJ KEY, select '2. VPX3226' and get to the adjustment mode by pushing the right-hand side (▶) key.
2) Get to the adjustment mode, and the display will automatically become a TV 6CH SPLIT screen. A window will appear as follows.



3) At first adjust '1. Contrast (Main)' in such a way that the characters "US 6CH" on the left-hand side of the main display are most distinct and clear (and not saturated), and then
   Adjust '2. Contrast (Sub)' in such a way that the brightness of the sub display on the right-hand side is the same as the main display. Use the volume+/- key for adjustment.
4) When adjustment is completed, escape adjustment mode by pushing ADJ KEY.

※ SERVICE OPTION DEFAULT

EZ ADJUST

1. AD9883A-Set
2. VPX3226
3. White-Balance
4. DVCO-Set
5. White-Pattern

1. AD9883A-Set

R-Gain adjustment value (default 128)
G-Gain adjustment value (default 128)
B-Gain adjustment value (default 128)
R-Offset adjustment value (default 64)
G-Offset adjustment value (default 64)
B-Offset adjustment value (default 64)

2. VPX3226

Contrast(Main)	31
Contrast(Sub)	31

3. White Balance

R-Gain adjustment value (default 127)
G-Gain adjustment value (default 127)
B-Gain adjustment value (default 127)
R-Cut adjustment value (default 63)
G-Cut adjustment value (default 63)
B-Cut adjustment value (default 63)

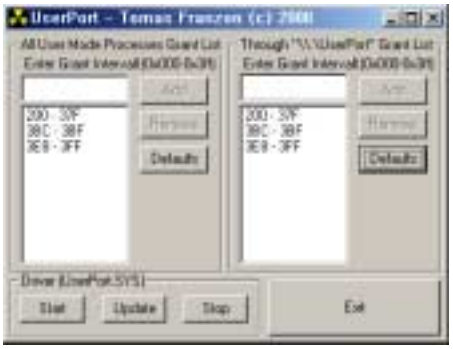
4. DVCO-Set
5. White-Pattern

EDID ADJUSTMENT

Windows EDID V1.0 User Manual

Operating System: MS Windows 98, 2000, XP
Port Setup: Windows 98 => Don't need setup
Windows 2000, XP => Need to Port Setup.
This program is available to LCD Monitor only.

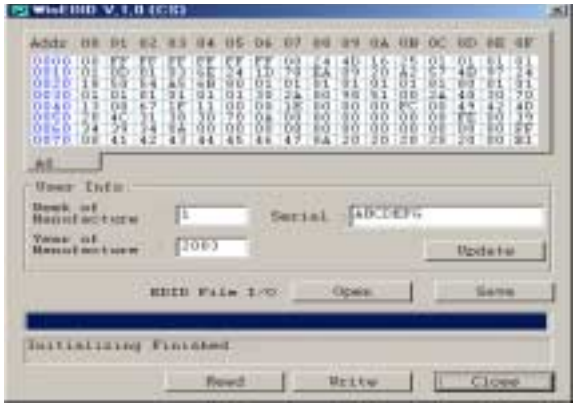
1. Port Setup
   a) Copy "UserPort.sys" file to
   "c:\WINNT\system32\drivers" folder
   b) Run Userport.exe



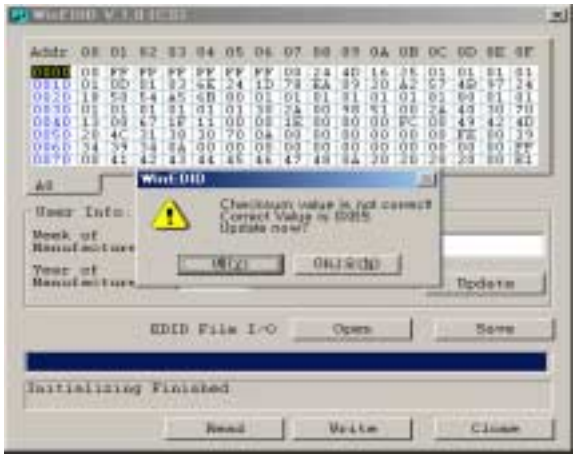
   c) Remove all default number
   d) Add 300-3FF

   e) Click Start button.
   f) Click Exit button.

2. EDID Read & Write
   1) Run WinEDID.exe



   2) Edit Week of Manufacture, Year of Manufacture, Serial Number
      a) Input User Info Data
      b) Click "Update" button
      c) Click " Write" button



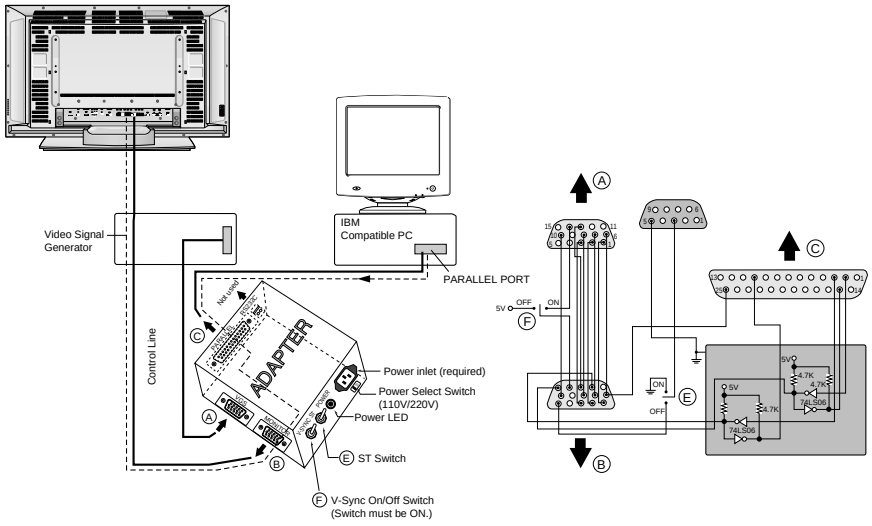
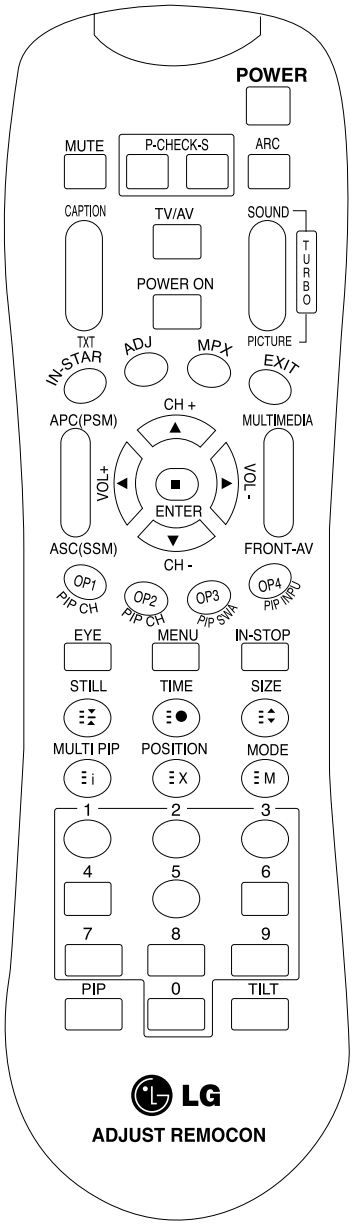


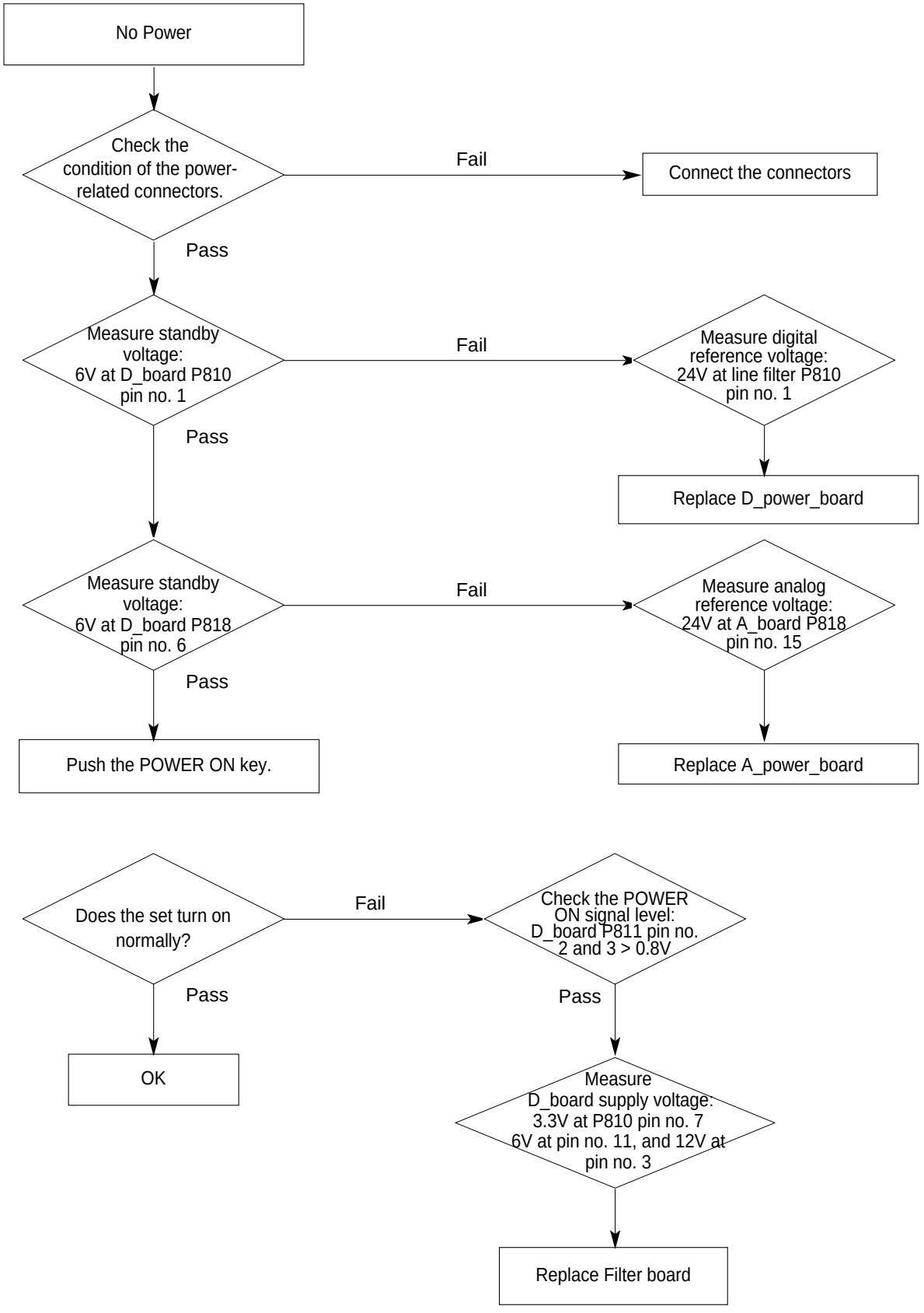
Figure 1. Cable Connection

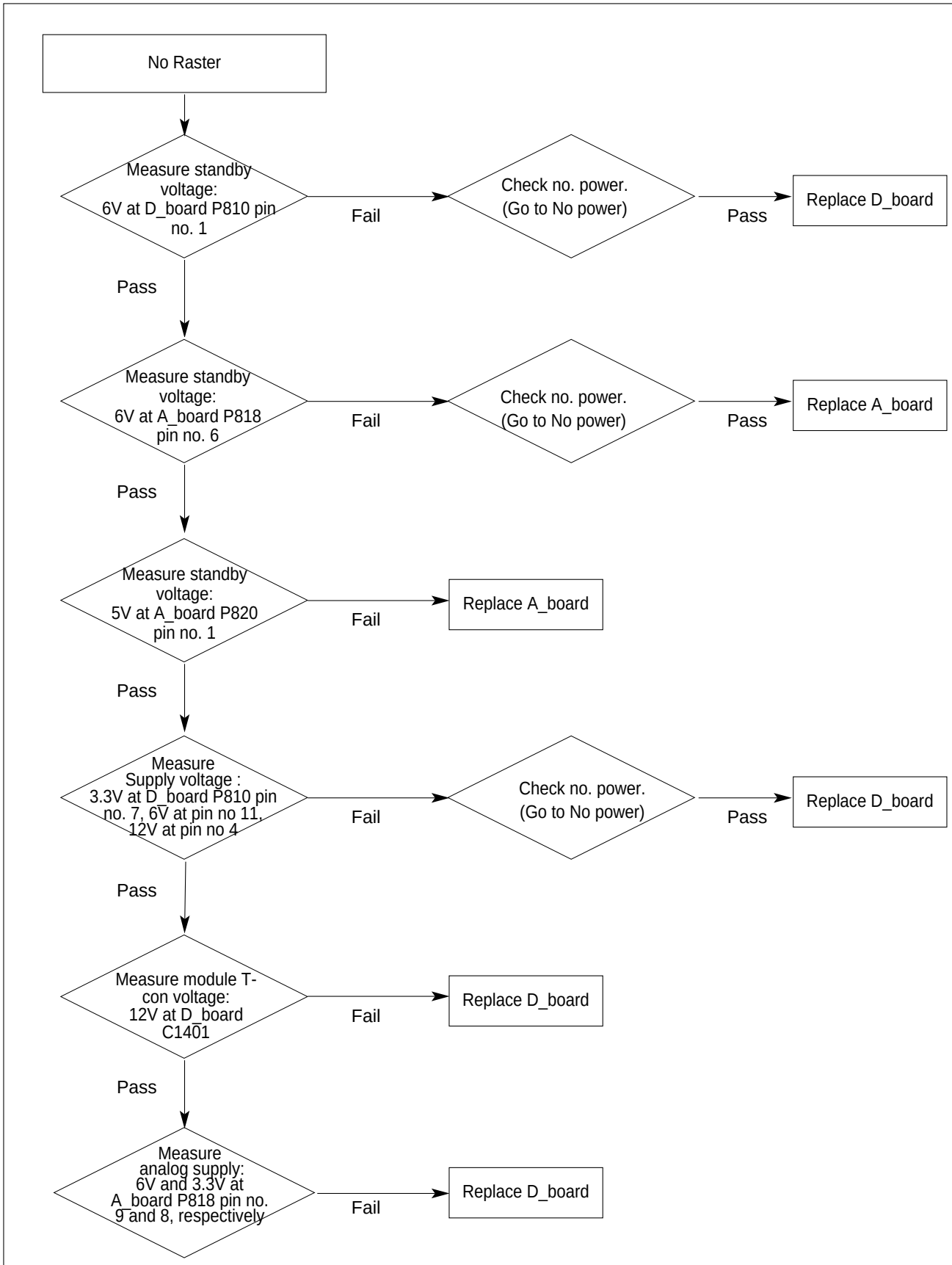
SVC REMOE CONTROLLER

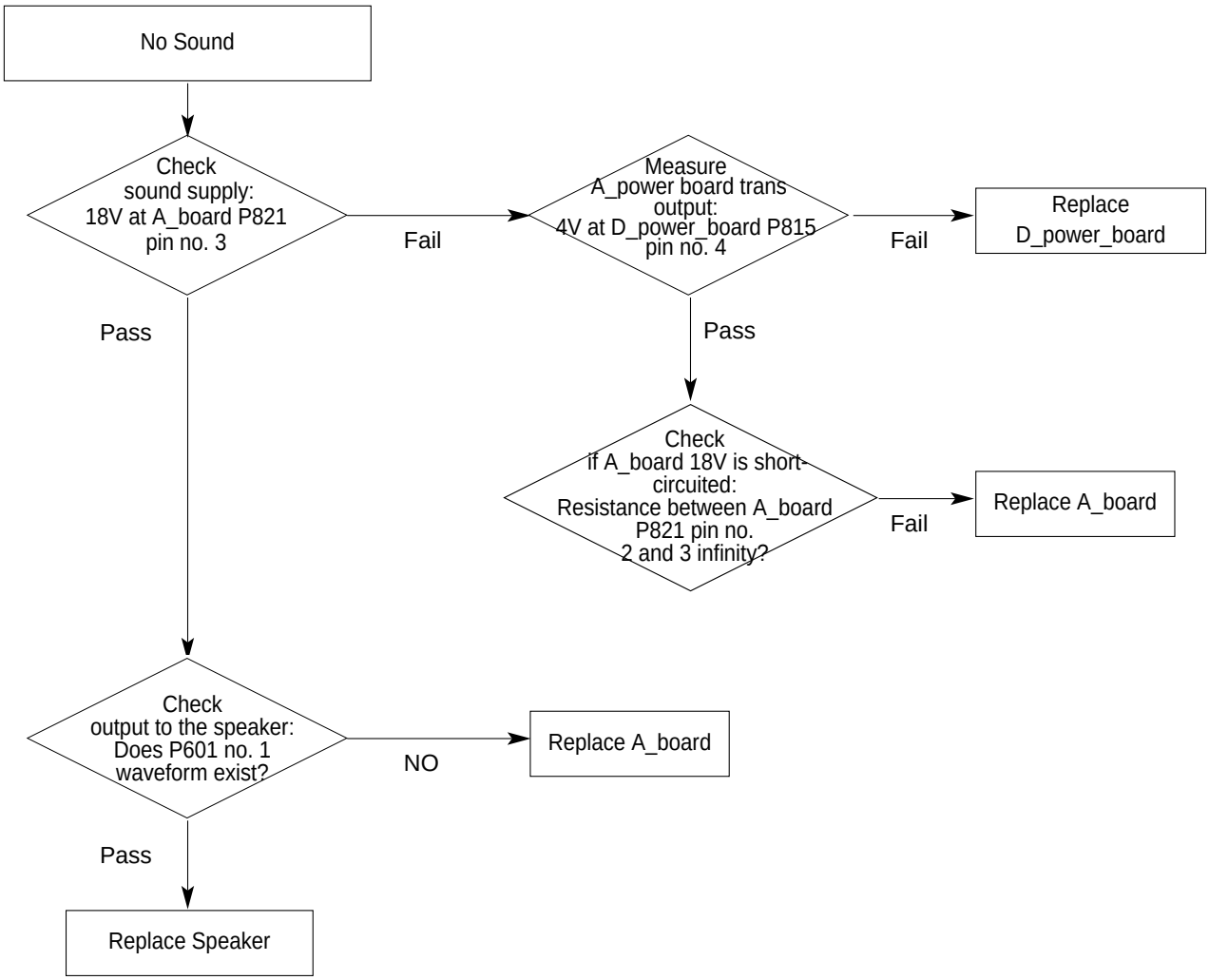
NO	KEY	FUNTION	REAMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets. To adjust the screen voltage (automatic): In-start →mute →Adjust →AV(Enter into W/B adjustment mode) W/B adjustment (automatic): After adjusting the screen →W/B adjustment →Exit two times (Adjustment completed)	Use the AV key to enter the screen W/B adjustment mode.
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMIDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH ±	To move channel up/down or to select a function displayed on the screen.	
21	VOL ±	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	



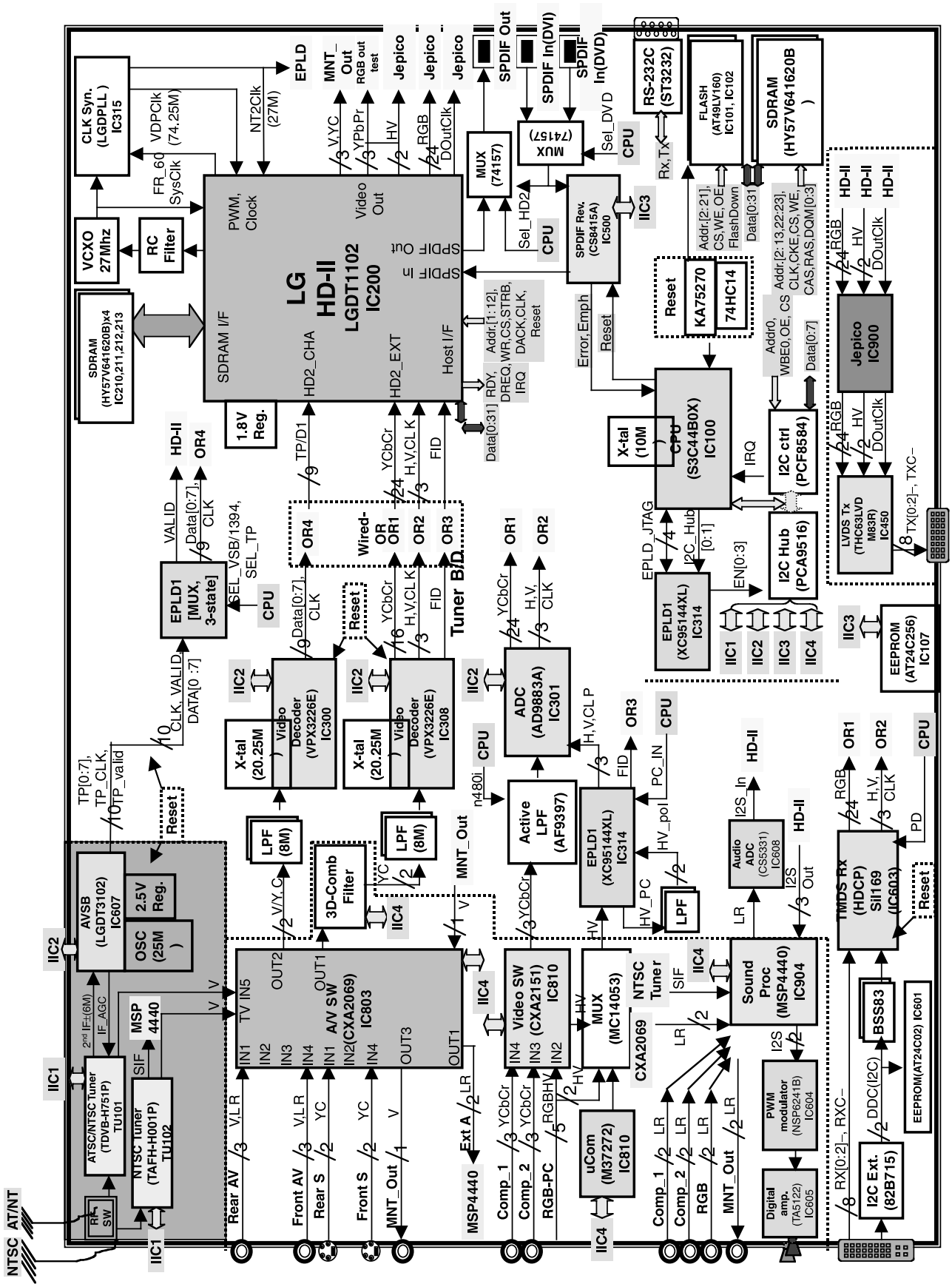
TROUBLESHOOTING


No Power
Check the condition of the power-related connectors.
Fail
Connect the connectors
Pass
Measure standby voltage: 6V at D_board P810 pin no. 1
Fail
Measure digital reference voltage: 24V at line filter P810 pin no. 1
Pass
Replace D_power_board
Measure standby voltage: 6V at D_board P818 pin no. 6
Fail
Measure analog reference voltage: 24V at A_board P818 pin no. 15
Pass
Push the POWER ON key.
Replace A_power_board
Does the set turn on normally?
Fail
Check the POWER ON signal level: D_board P811 pin no. 2 and 3 > 0.8V
Pass
Pass
OK
Measure D_board supply voltage: 3.3V at P810 pin no. 7 6V at pin no. 11, and 12V at pin no. 3
Replace Filter board


No Raster
Measure standby voltage: 6V at D_board P810 pin no. 1
Fail
Check no. power. (Go to No power)
Pass
Replace D_board
Pass
Measure standby voltage: 6V at A_board P818 pin no. 6
Fail
Check no. power. (Go to No power)
Pass
Replace A_board
Pass
Measure standby voltage: 5V at A_board P820 pin no. 1
Fail
Replace A_board
Pass
Measure Supply voltage : 3.3V at D_board P810 pin no. 7, 6V at pin no 11, 12V at pin no 4
Fail
Check no. power. (Go to No power)
Pass
Replace D_board
Pass
Measure module T-con voltage: 12V at D_board C1401
Fail
Replace D_board
Pass
Measure analog supply: 6V and 3.3V at A_board P818 pin no. 9 and 8, respectively
Fail
Replace D_board


No Sound
Check sound supply: 18V at A_board P821 pin no. 3
Fail
Measure A_power board trans output: 4V at D_power_board P815 pin no. 4
Fail
Replace D_power_board
Pass
Pass
Check if A_board 18V is short-circuited: Resistance between A_board P821 pin no. 2 and 3 infinity?
Fail
Replace A_board
Check output to the speaker: Does P601 no. 1 waveform exist?
NO
Replace A_board
Pass
Replace Speaker

BLOCK DIAGRAM



BLOCK DIAGRAM DESCRIPTION

ATSC/NTSC tuner (TDVB-001P) can receive both terrestrial analog and terrestrial digital signals.
But a NTSC tuner (6700NFNS06C) can receive terrestrial analog only. Therefore if you run two displays at the same time, it is not possible to see two digital channels.

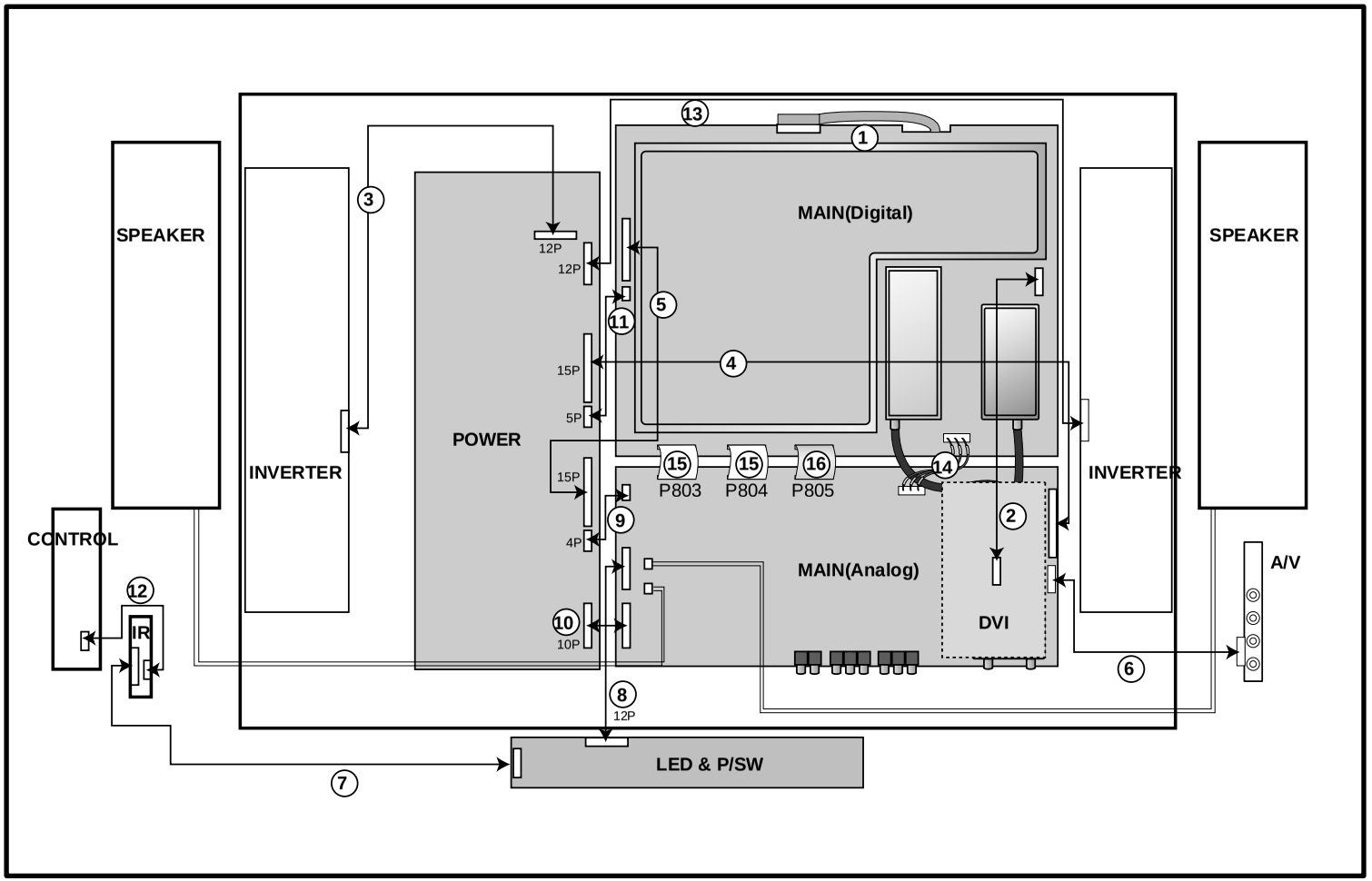
A/V SW (CXA2069) is the IC that takes external input terminal signals and broadcast signals from the tuners and handles them selectively. Audio signals are
sent to MSP4450. Video signals are sent to HD-II via two paths - VPX3226E on the upper side is used to handle sub displays, while VPX3225E on the lower
side controls the main display.
To the lower side, signals are sent using an expensive 3D-comb filter with Y/C divided.
The video decoder (VPX3226E) is a chip that decodes input signals.

HD-II is a chip that controls nearly all video-related functions, including brightness, sharpness, video formatting and scaling. If digital broadcasting is available,
it comes through TP, which can be controlled from HD-II.

Video SW (CXA2151) is an IC that outputs video signals selectively. The selected one is outputted through ADC (AD9883A) as a digital signal.
uCom (M37272) interfaces with the main CPU and primarily plays the role of controlling power supply, remote controller and timers. Thus, while the set is
turned off, it sends time information to uCom for management.
TMDS Tx (Sil164) is the display stage that sends video data to the display medium according to the TMDS protocol, and the TMSD receiver accepts it and
outputs display.

CPU (S3C440BX) is the central processing IC, which controls most of the ICs.

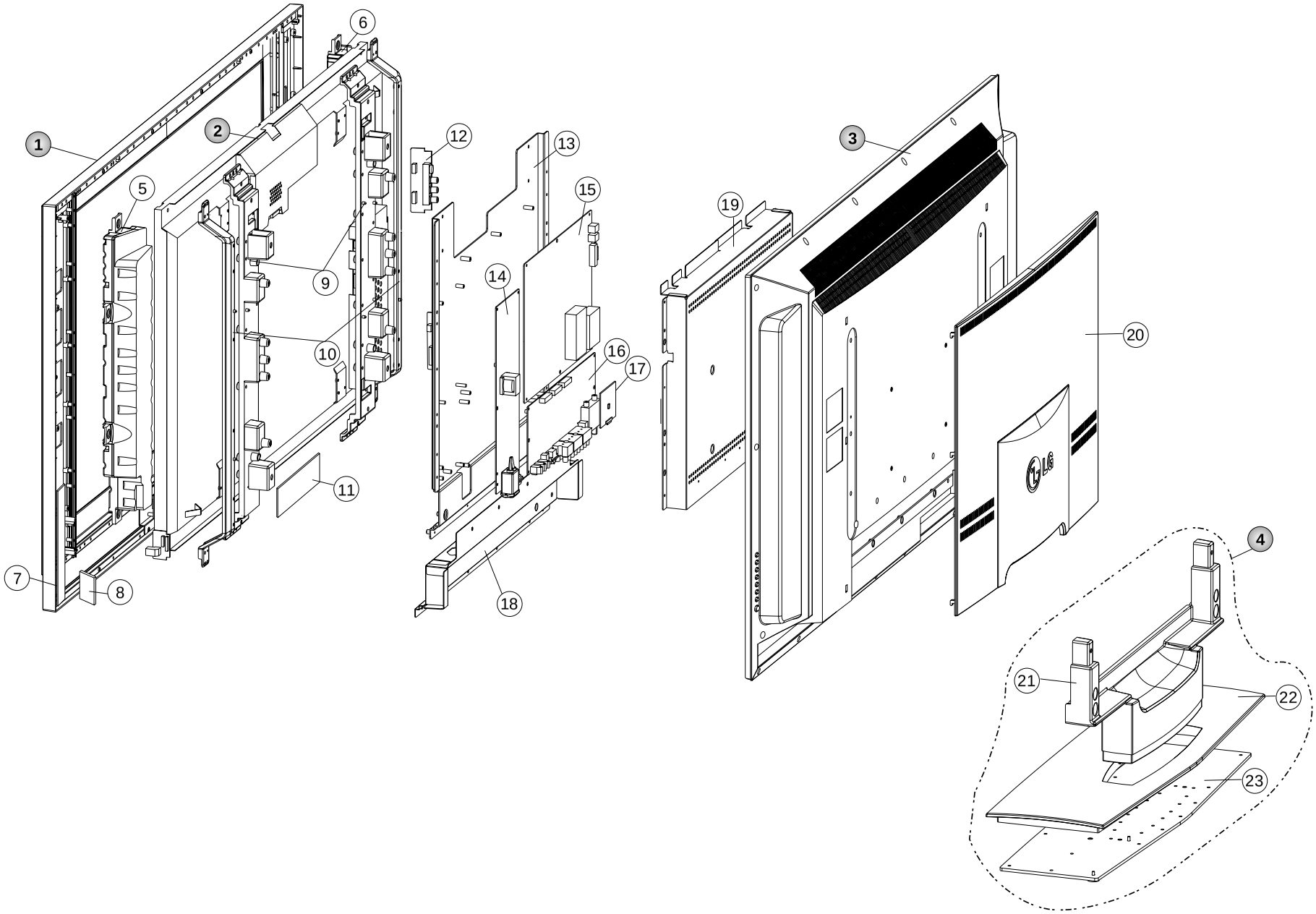
WIRING DIAGRAM



Wiring Part List

No.	Part No.
1	6631T11020J
2	6631V00042B
3	6631T20032P
4	6631T25019P
5	6631T25019X
6	6631T20033P
7	6631T20030F
8	6631T20028K
9	6631T25019V
10	6631T20033M
11	6631T25019W
12	6631V20023A
13	6631T20032Q
14	6631T25019U
15	6631V10004A
16	6631T11017J

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
1	3091TKE015A	CABINET ASSEMBLY, DU-42LZ30 BRAND 3090V00554 SET
	3091TKE015G	CABINET ASSEMBLY, DU-42LZ30 BRAND 3090V00554 SKD
2	6304FLP148A	LCD(LIQUID CRYSTAL DISPLAY), LC420W02-B4K1 LG PHILPS TFT COLOR WXGA, 0.7T, NORMAL POL, 500NITS, H-H, WITH AI
3	3809TKE015A	BACK COVER ASSEMBLY, DU-42LZ30 3809TKE009 SET
	3809TKE015D	BACK COVER ASSEMBLY, DU-42LZ30 3809TKE009 SKD
4	3043TKK173A	TILT SWIVEL ASSEMBLY, DU-42LZ30 4950TKK816A SET(H-H MODULE)
	3043TKK173B	TILT SWIVEL ASSEMBLY, DU-42LZ30 4950TKK816 SKD(H-H MODULE)
5	6401TZZ043A	SPEAKER ASSEMBLY, DN-42LZ30 ESTEC(RIGHT)
6	6401TZZ051A	SPEAKER ASSEMBLY, DN-42LZ30 ESTEC(LEFT)
7	6871TST564A	PWB(PCB) ASSEMBLY,SUB, DU-42LZ30 CONTROL TOTAL BRAND.
8	6871TST565A	PWB(PCB) ASSEMBLY,SUB, DU-42LZ30 ETC TOTAL BRAND IR RECEIVE
9	4951TKK195A	METAL ASSEMBLY, SUPPORTER MODULE(42LZ30)H-H
10	4950V00214A	METAL, SUPPORTER EGI SUPPOTER EXTRA DIE-CASTING
11	6871TST744A	PWB(PCB) ASSEMBLY,SUB, DU-42LZ30 LED & P/SW TOTAL BRAND .
12	6871TST566A	PWB(PCB) ASSEMBLY,SUB, DU-42LZ30 SUB TOTAL BRAND SIDE AV
13	4951TKS169B	METAL ASSEMBLY, FRAME DU-42LZ30 4950TKS298B
	4951TKS169D	METAL ASSEMBLY, FRAME DU-42LZ30 4950TKS298B SKD
14	6871TPT283B	PWB(PCB) ASSEMBLY, POWER, 37-42INCH PSU POWER TOTAL BRAND HAVE IR JACK
15	3313T42004A	MAIN TOTAL ASSEMBLY, DU-42LZ30 BRAND AL-03HA DIGITAL
	3313TD4008A	MAIN TOTAL ASSEMBLY, DU-42LZ30 SAPLMU2 BRAND AL-03HA DIGITAL
16	3313T42003A	MAIN TOTAL ASSEMBLY, DU-42LZ30 BRAND AL-03HA ANALOG
17	6871TST568A	PWB(PCB) ASSEMBLY,SUB, DU-42LZ30 SUB TOTAL BRAND DVI INTERFACE
18	4951TKK193B	METAL ASSEMBLY, REAR A/V DU-42LZ30 4950TKK887B
	4951TKK193D	METAL ASSEMBLY, REAR A/V DU-42LZ30 SKD
19	4951TKK192A	METAL ASSEMBLY, SHIELD 42LZ30 H-H MODULE
	4951TKK192B	METAL ASSEMBLY, SHIELD 42LZ30 SKD 4950TKK888
	4951TKK192D	METAL ASSEMBLY, SHIELD
20	3550TKK582A	COVER, 42LZ30 REAR AV SET
	3550TKK582B	COVER, 42LZ30 REAR C/SKD
21	4950TKK816A	METAL, STAND TOP DIE-CASTING
22	3550TKK542A	COVER, DU-42LZ30 BASE TOP NON PRINTING
	3550TKK542B	COVER, DN-42LZ30 AQLPLKH BASE TOP EXIST PRINTING
23	4950TKK889A	METAL, BASE STAND 42LZ30

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN, CH : Ceramic
CQ : Polyestor
CE : Electrolytic
CF : Fixed Film

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RH : CHIP, Metal Glazed(Chip)
RR : Drawing

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		MAIN BOARD(ANALOG)		
		CAPACITOR		
		C848	181-310U	2.2UF SHL-BP/NP 50V FM5 BP(D)
		C602	0CH8336H611	33UF 25V M 85STD(CYL) R/TP
		C617	0CH8336H611	33UF 25V M 85STD(CYL) R/TP
		C725	0CH8336H611	33UF 25V M 85STD(CYL) R/TP
		C1878	0CH3105F946	1UF 16V Z F 2012 R/TP
		C972	0CH3222K516	2200PF 50V K B 2012 R/TP
		C973	0CH3222K516	2200PF 50V K B 2012 R/TP
		C974	0CH3222K516	2200PF 50V K B 2012 R/TP
		C975	0CH3222K516	2200PF 50V K B 2012 R/TP
		C976	0CH3222K516	2200PF 50V K B 2012 R/TP
		C977	0CH3222K516	2200PF 50V K B 2012 R/TP
		C978	0CH3222K516	2200PF 50V K B 2012 R/TP
		C979	0CH3222K516	2200PF 50V K B 2012 R/TP
		C658	0CH3105F946	1UF 16V Z F 2012 R/TP
		C661	0CH3105F946	1UF 16V Z F 2012 R/TP
		C107	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C108	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C110	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C1817	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C1820	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C833	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C851	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C852	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C855	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C856	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C863	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C864	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C871	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C872	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C882	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C883	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C944	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C945	0CH6471K416	470F 50V J NP0 2012 R/TP
		C990	0CH6560K416	56PF 50V J NP0 2012 R/TP
		C106	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C885	0CH6561K416	560PF 50V J NP0 2012 R/TP
		C989	0CH6560K416	56PF 50V J NP0 2012 R/TP
		C670	0CH2333K516	33000P 50V K B 2.0X1.25 R/TP
		C672	0CH2333K516	33000P 50V K B 2.0X1.25 R/TP
		C673	0CH2333K516	33000P 50V K B 2.0X1.25 R/TP
		C675	0CH2333K516	33000P 50V K B 2.0X1.25 R/TP
		C888	0CH2473K516	47000P 50V K B 2.0X1.25 R/TP
		C122	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C123	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C124	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1801	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1803	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1804	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1805	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1807	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1811	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1815	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1818	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1854	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1856	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1858	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C1861	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1863	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1864	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1866	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1867	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C601	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C603	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C605	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C606	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C609	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C610	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C646	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C647	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C648	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C649	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C650	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C652	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C654	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C655	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C656	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C657	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C662	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C664	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C669	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C671	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C674	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C676	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C678	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C679	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C680	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C682	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C690	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C691	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C693	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C694	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C724	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C726	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C728	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C729	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C730	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C731	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C732	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C733	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C734	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C735	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C740	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C742	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C744	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C745	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C751	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C752	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C762	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C765	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C767	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C768	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C770	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C771	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C781	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C806	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C811	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C816	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C828	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C830	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C832	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C837	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C838	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C865	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C874	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C876	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C877	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C879	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C880	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C881	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C884	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C886	0CH5821K416	820PF 50V 5% NP0 2012 R/TP
		C887	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C889	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C890	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C892	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C893	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C894	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C895	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C896	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C899	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C901	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C928	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C929	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C931	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C935	0CH3822K516	8200PF 2012 50V 10% B(Y5P) R/T
		C942	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C943	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C969	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C971	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C980	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C988	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C991	0CH6020K116	2PF 50V 0.5 PF NP0 2012 R/TP
		C992	0CH6020K116	2PF 50V 0.5 PF NP0 2012 R/TP
		C120	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1802	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1812	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C1814	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C608	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C612	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C615	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C659	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C660	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C663	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C666	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C683	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C684	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C685	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C686	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C695	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C748	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C749	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C773	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C774	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C784	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C786	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C787	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C854	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C860	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C934	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C951	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C616	0CH2102K516	1000PF 50V 10% B(Y5P) 2012 R/T
		C696	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C764	0CH2334F566	0.33UF 16V 10% X7R 2012 R/TP
		C783	0CH2334F566	0.33UF 16V 10% X7R 2012 R/TP
		C821	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C822	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C826	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C827	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C862	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C932	0CH2152K516	1500PF 50V 10% B(Y5P) 2012 R/T
		C933	0CH2152K516	1500PF 50V 10% B(Y5P) 2012 R/T
		C607	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C668	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C818	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C819	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C820	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C823	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C824	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C825	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C843	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C844	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C845	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C846	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C847	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C853	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C859	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C861	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C870	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C958	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C959	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C960	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C961	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C962	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C963	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C964	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C965	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP
		C1810	0CE105CK636	"1UF SHL,SD 50V 20% FM5 BP(D) T"
		C688	0CE108EJK18	"1000UF KMG,RD 35V 20%,-20% FL"
		C689	0CE108EJK18	"1000UF KMG,RD 35V 20%,-20% FL"
		C902	0CE4772J618	470UF KMF 35V 20% TP 5 FL
		C113	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C1806	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C1813	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C1855	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C1860	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C1862	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
		C1865	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
		C1868	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
		C1871	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
		C604	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD) SM
		C611	0CH8476F691	47UF 16V 20% 105STD (CYL) R/TP
		C613	0CH8226F691	22UF 16V 20% 105STD (CYL) R/TP

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C614	0CH8226F691	22UF 16V 20% 105STD (CYL) R/TP
		C651	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
		C653	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
		C665	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C667	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C692	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SMD
		C727	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD) SM
		C741	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C743	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
		C763	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C766	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
		C782	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C785	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
		C803	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C804	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C805	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C807	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C808	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C809	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C810	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C812	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C813	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C814	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C815	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C817	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C829	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C831	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C836	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C839	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C849	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C850	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C857	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C858	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C866	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C867	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
		C868	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
		C873	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
		C875	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C878	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
		C897	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C898	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C927	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C930	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C941	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
		C953	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) SMD
		C954	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) SMD
		C966	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C967	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C968	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
		C970	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) SMD
		C981	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) SMD
		C987	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
		C677	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
		C681	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
		DIODEs		
		ZD108	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD109	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD110	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD111	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD112	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		ZD113	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD115	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD128	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD101	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD102	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD120	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD121	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD122	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD123	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD124	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD125	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD902	0DZRM00248A	RLZ8.2B-TE11 ROHM R/TP LLDS(LL
		IC		
		IC608	0ICB533100A	CS5331A-KSR 8SOIC TP ADC -
		IC102	0IAL242110A	"AT24C21-10SI-2.5 8P,SOP TP 1K"
		IC804	0IMMRNE002A	UPD64083GF3BA NEC 100 QFP ST 3
		IC604	0IMCRNL001A	NSP-6241B NEOFIDELITY 64P TQFP
		IC605	0IMCRTI028C	TAS5122DCAR TEXAS INSTRUMENT 5
		IC801	0IMCRSO008A	"CXA2151Q SONY 48P QFP TRAY 60""""
		IC803	0ISO206900A	CXA2069Q QFP64 BK I2C BUS AV S
		IC904	0IMCRMN027B	MSP4440G-QA-C13-101WITH SRS WO
		IC802	0IMO140530D	MC14053BDR2 16P SOIC R/TP ANAL
		IC601	0IMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK, R"
		IC702	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R/T"
		IC704	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R/T"
		IC705	0IMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK, R"
		IC706	0IPRPML001A	MIC39100 MICREL 3P SOT223 R/TP
		IC603	0ITO741570C	"TC74LCX157FT 16P,TSSOP TP QUAD"
		IC810	0IMCRFA022A	74F14SC FAIRCHILD 14P SOIC R/T
		IC901	0IMCRTI001A	SN74HCT157D TEXAS INSTRUMENT 1
		COIL & CORE & INDUCTOR		
		L607	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L608	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L609	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L610	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L603	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L604	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L611	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L613	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L614	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L702	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L703	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L704	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L705	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L707	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L708	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L709	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L710	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L711	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L712	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L713	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L715	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L718	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L719	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L720	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L724	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L801	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L802	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L803	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L805	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L809	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L815	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L816	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L817	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L818	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L831	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		L832	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		L848	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		L849	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		L850	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		L851	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		L852	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		L857	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L866	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L714	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L716	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L725	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R
		L102	0LC4732101A	4.7UH 10% 3216 R/TC FI-B3216-4
		L103	0LC4732101A	4.7UH 10% 3216 R/TC FI-B3216-4
		L804	0LC2232101A	22UH 10% 3216 R/TC FI-D3216-22
		L806	0LC4732101A	4.7UH 10% 3216 R/TC FI-B3216-4
		L807	0LC2232101A	22UH 10% 3216 R/TC FI-D3216-22
		L808	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-10
		L810	0LCML00005A	MLI-201209-5R6K MAG LAYERS R/T
		L821	0LC4732101A	4.7UH 10% 3216 R/TC FI-B3216-4
		L907	0LC1020101A	1UH 10% 2012 R/TC FI-B2012-102
		L911	0LC2232101A	22UH 10% 3216 R/TC FI-D3216-22
		L913	0LC2232101A	22UH 10% 3216 R/TC FI-D3216-22
		L906	0LC2232101A	22UH 10% 3216 R/TC FI-D3216-22
		L908	0LC1020101A	1UH 10% 2012 R/TC FI-B2012-102
		L912	0LC2232101A	22UH 10% 3216 R/TC FI-D3216-22
FET & TRANSISTOR				
		Q815	0TR102009AJ	KRC102S NPN SOT-23 TP KEC
		Q812	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q813	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q814	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q816	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q817	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q818	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q819	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q825	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q826	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q835	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q836	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q839	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q910	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q803	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q804	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q805	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q806	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q807	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q808	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q809	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q810	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q811	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q820	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q821	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q822	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		Q823	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q824	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q827	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q828	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q829	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q830	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q832	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q833	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q834	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q837	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q838	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q840	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q841	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q842	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q843	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q844	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q845	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q903	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q904	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q911	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q912	0TR102008AA	KRA102S R/TP KEC SOT23 CHIP TR
		Q913	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q914	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q915	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
RESISTORs				
		R106	0RH0822D622	82 1/10W 5 D.R/TP
		R109	0RH0822D622	82 1/10W 5 D.R/TP
		R111	0RH0822D622	82 1/10W 5 D.R/TP
		R121	0RH4703D622	470K 1/10W 5 D.R/TP
		R122	0RH4703D622	470K 1/10W 5 D.R/TP
		R128	0RH1000D622	100 1/10W 5 D.R/TP
		R145	0RH4703D622	470K 1/10W 5 D.R/TP
		R146	0RH4703D622	470K 1/10W 5 D.R/TP
		R147	0RH4703D622	470K 1/10W 5 D.R/TP
		R148	0RH4703D622	470K 1/10W 5 D.R/TP
		R155	0RH0822D622	82 1/10W 5 D.R/TP
		R156	0RH0822D622	82 1/10W 5 D.R/TP
		R157	0RH0822D622	82 1/10W 5 D.R/TP
		R158	0RH0822D622	82 1/10W 5 D.R/TP
		R159	0RH0822D622	82 1/10W 5 D.R/TP
		R160	0RH0822D622	82 1/10W 5 D.R/TP
		R161	0RH0102D622	10 1/10W 5 D.R/TP
		R162	0RH0752D622	75 1/10W 5 D.R/TP
		R168	0RH0752D622	75 1/10W 5 D.R/TP
		R169	0RH4703D622	470K 1/10W 5 D.R/TP
		R170	0RH4703D622	470K 1/10W 5 D.R/TP
		R171	0RH4703D622	470K 1/10W 5 D.R/TP
		R172	0RH4703D622	470K 1/10W 5 D.R/TP
		R175	0RH0752D622	75 1/10W 5 D.R/TP
		R177	0RH0752D622	75 1/10W 5 D.R/TP
		R1805	0RH3300D622	330 1/10W 5 D.R/TP
		R1806	0RH3300D622	330 1/10W 5 D.R/TP
		R1817	0RH3600D622	CHIP 360-J 1/10 W
		R1818	0RH2200D622	220 1/10W 5 D.R/TP
		R1822	0RH4703D622	470K 1/10W 5 D.R/TP
		R1823	0RH2200D622	220 1/10W 5 D.R/TP
		R1827	0RH4700D622	470 1/10W 5 D.R/TP
		R1828	0RH3302D622	33K 1/10W 5 D.R/TP
		R1831	0RH4700D622	470 1/10W 5 D.R/TP
		R1832	0RH4300D622	CHIP 430-J 1/10 W

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1833	0RH0682D622	68 1/10W 5 D.R/TP
		R1835	0RH1801D622	1.8K 1/10W 5 D.R/TP
		R1836	0RH3301D622	3.3K 1/10W 5 D.R/TP
		R1841	0RH4702D622	47K 1/10W 5 D.R/TP
		R1844	0RH4700D622	470 1/10W 5 D.R/TP
		R1851	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1859	0RH5600D622	560 1/10W 5 D.R/TP
		R1860	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1863	0RH4700D622	470 1/10W 5 D.R/TP
		R1864	0RH0472D622	47 1/10W 5 D.R/TP
		R1868	0RH2700D622	270 1/10W 5 D.R/TP
		R1870	0RH5600D622	560 1/10W 5 D.R/TP
		R1871	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1874	0RH4700D622	470 1/10W 5 D.R/TP
		R1875	0RH0472D622	47 1/10W 5 D.R/TP
		R1879	0RH2700D622	270 1/10W 5 D.R/TP
		R1884	0RH0752D622	75 1/10W 5 D.R/TP
		R1887	0RH0752D622	75 1/10W 5 D.R/TP
		R1893	0RH0752D622	75 1/10W 5 D.R/TP
		R1894	0RH0752D622	75 1/10W 5 D.R/TP
		R1895	0RH0752D622	75 1/10W 5 D.R/TP
		R1903	0RH4703D622	470K 1/10W 5 D.R/TP
		R1905	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R1907	0RH4703D622	470K 1/10W 5 D.R/TP
		R1922	0RH2200D622	220 1/10W 5 D.R/TP
		R1923	0RH2200D622	220 1/10W 5 D.R/TP
		R1924	0RH2200D622	220 1/10W 5 D.R/TP
		R2809	0RH0752D622	75 1/10W 5 D.R/TP
		R661	0RH0221D622	2.2 1/10W 5 D.R/TP
		R664	0RH0221D622	2.2 1/10W 5 D.R/TP
		R669	0RH0221D622	2.2 1/10W 5 D.R/TP
		R670	0RH0221D622	2.2 1/10W 5 D.R/TP
		R680	0RH1000D622	100 1/10W 5 D.R/TP
		R806	0RH2200D622	220 1/10W 5 D.R/TP
		R807	0RH2200D622	220 1/10W 5 D.R/TP
		R848	0RH0752D622	75 1/10W 5 D.R/TP
		R849	0RH0752D622	75 1/10W 5 D.R/TP
		R853	0RH0752D622	75 1/10W 5 D.R/TP
		R854	0RH0752D622	75 1/10W 5 D.R/TP
		R858	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R859	0RH4700D622	470 1/10W 5 D.R/TP
		R860	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R891	0RH4703D622	470K 1/10W 5 D.R/TP
		R893	0RH4703D622	470K 1/10W 5 D.R/TP
		R895	0RH4702D622	47K 1/10W 5 D.R/TP
		R896	0RH2200D622	220 1/10W 5 D.R/TP
		R898	0RH3303D622	330K 1/10W 5 D.R/TP
		R899	0RH0752D622	75 1/10W 5 D.R/TP
		R956	0RH1000D622	100 1/10W 5 D.R/TP
		R976	0RH1000D622	100 1/10W 5 D.R/TP
		R979	0RH3300D622	330 1/10W 5 D.R/TP
		R101	0RH1000D622	100 1/10W 5 D.R/TP
		R102	0RH1202D622	12K 1/10W 5 D.R/TP
		R105	0RH7500D622	750 OHM 1 / 10 W 5% D R/TP
		R108	0RH1000D622	100 1/10W 5 D.R/TP
		R132	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R133	0RH1000D622	100 1/10W 5 D.R/TP
		R134	0RH1000D622	100 1/10W 5 D.R/TP
		R1601	0RH1500D622	150 1/10W 5 D.R/TP
		R1602	0RH1500D622	150 1/10W 5 D.R/TP
		R1603	0RH4702D622	47K 1/10W 5 D.R/TP
		R1801	0RH1000D622	100 1/10W 5 D.R/TP

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1802	0RH1000D622	100 1/10W 5 D.R/TP
		R1809	0RH0752D622	75 1/10W 5 D.R/TP
		R1810	0RH5100D622	510 1/10W 5 D.R/TP
		R1813	0RH2200D622	220 1/10W 5 D.R/TP
		R1815	0RH0752D622	75 1/10W 5 D.R/TP
		R1820	0RH1000D622	100 1/10W 5 D.R/TP
		R1825	0RH0102D622	10 1/10W 5 D.R/TP
		R1826	0RH0102D622	10 1/10W 5 D.R/TP
		R1837	0RH8200D622	820 1/10W 5 D.R/TP
		R1838	0RH4700D622	470 1/10W 5 D.R/TP
		R1839	0RH0752D622	75 1/10W 5 D.R/TP
		R1840	0RH2200D622	220 1/10W 5 D.R/TP
		R1842	0RH2203D622	220K 1/10W 5 D.R/TP
		R1843	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1848	0RH3302D622	33K 1/10W 5 D.R/TP
		R1855	0RH1801D622	1.8K 1/10W 5 D.R/TP
		R1856	0RH3301D622	3.3K 1/10W 5 D.R/TP
		R1857	0RH8200D622	820 1/10W 5 D.R/TP
		R1858	0RH4700D622	470 1/10W 5 D.R/TP
		R1861	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1865	0RH4700D622	470 1/10W 5 D.R/TP
		R1866	0RH4700D622	470 1/10W 5 D.R/TP
		R1869	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R1876	0RH4700D622	470 1/10W 5 D.R/TP
		R1877	0RH4700D622	470 1/10W 5 D.R/TP
		R1880	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R1888	0RH0822D622	82 1/10W 5 D.R/TP
		R1889	0RH0822D622	82 1/10W 5 D.R/TP
		R1890	0RH0822D622	82 1/10W 5 D.R/TP
		R1909	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R2811	0RH0752D622	75 1/10W 5 D.R/TP
		R2861	0RH0822D622	82 1/10W 5 D.R/TP
		R2862	0RH1500D622	150 1/10W 5 D.R/TP
		R650	0RH4700D622	470 1/10W 5 D.R/TP
		R651	0RH2200D622	220 1/10W 5 D.R/TP
		R652	0RH2200D622	220 1/10W 5 D.R/TP
		R653	0RH2200D622	220 1/10W 5 D.R/TP
		R654	0RH2200D622	220 1/10W 5 D.R/TP
		R656	0RH1000D622	100 1/10W 5 D.R/TP
		R657	0RH1000D622	100 1/10W 5 D.R/TP
		R659	0RH1000D622	100 1/10W 5 D.R/TP
		R662	0RH0471D622	4.7 1/10W 5 D.R/TP
		R665	0RH0221D622	2.2 1/10W 5 D.R/TP
		R666	0RH0221D622	2.2 1/10W 5 D.R/TP
		R667	0RH0221D622	2.2 1/10W 5 D.R/TP
		R668	0RH0221D622	2.2 1/10W 5 D.R/TP
		R673	0RH0101D622	1.0 1/10W 5 TA
		R674	0RH0101D622	1.0 1/10W 5 TA
		R675	0RH0101D622	1.0 1/10W 5 TA
		R678	0RH0101D622	1.0 1/10W 5 TA
		R690	0RH1000D622	100 1/10W 5 D.R/TP
		R812	0RH1502D622	15K 1/10W 5 D.R/TP
		R813	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R815	0RH1502D622	15K 1/10W 5 D.R/TP
		R816	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R818	0RH1502D622	15K 1/10W 5 D.R/TP
		R819	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R824	0RH1502D622	15K 1/10W 5 D.R/TP
		R825	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R827	0RH1502D622	15K 1/10W 5 D.R/TP
		R828	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R830	0RH1502D622	15K 1/10W 5 D.R/TP

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R831	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R836	0RH1502D622	15K 1/10W 5 D.R/TP
		R837	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R839	0RH1502D622	15K 1/10W 5 D.R/TP
		R840	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R842	0RH1502D622	15K 1/10W 5 D.R/TP
		R843	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R845	0RH0822D622	82 1/10W 5 D.R/TP
		R846	0RH0822D622	82 1/10W 5 D.R/TP
		R847	0RH0822D622	82 1/10W 5 D.R/TP
		R850	0RH0822D622	82 1/10W 5 D.R/TP
		R851	0RH0822D622	82 1/10W 5 D.R/TP
		R852	0RH0822D622	82 1/10W 5 D.R/TP
		R866	0RH0752D622	75 1/10W 5 D.R/TP
		R867	0RH0752D622	75 1/10W 5 D.R/TP
		R868	0RH0752D622	75 1/10W 5 D.R/TP
		R869	0RH1000D622	100 1/10W 5 D.R/TP
		R870	0RH1000D622	100 1/10W 5 D.R/TP
		R871	0RH1000D622	100 1/10W 5 D.R/TP
		R876	0RH2200D622	220 1/10W 5 D.R/TP
		R877	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R878	0RH2200D622	220 1/10W 5 D.R/TP
		R879	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R880	0RH2200D622	220 1/10W 5 D.R/TP
		R881	0RH2200D622	220 1/10W 5 D.R/TP
		R882	0RH2200D622	220 1/10W 5 D.R/TP
		R883	0RH0752D622	75 1/10W 5 D.R/TP
		R884	0RH2200D622	220 1/10W 5 D.R/TP
		R885	0RH4702D622	47K 1/10W 5 D.R/TP
		R886	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R887	0RH2200D622	220 1/10W 5 D.R/TP
		R888	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R905	0RH2200D622	220 1/10W 5 D.R/TP
		R906	0RH2200D622	220 1/10W 5 D.R/TP
		R929	0RH1000D622	100 1/10W 5 D.R/TP
		R930	0RH3301D622	3.3K 1/10W 5 D.R/TP
		R950	0RH1000D622	100 1/10W 5 D.R/TP
		R951	0RH1000D622	100 1/10W 5 D.R/TP
		R959	0RH2200D622	220 1/10W 5 D.R/TP
		R960	0RH2200D622	220 1/10W 5 D.R/TP
		R977	0RH4700D622	470 1/10W 5 D.R/TP
		R978	0RH1202D622	12K 1/10W 5 D.R/TP
		R980	0RH3901D622	3.9K 1/10W 5 D.R/TP
		R997	0RH1000D622	100 1/10W 5 D.R/TP
		R998	0RH1000D622	100 1/10W 5 D.R/TP
		R999	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R855	0RN1002F409	10K 1/6W 1 TA52
		L104	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L811	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L812	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L813	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L814	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R103	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R104	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R107	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R110	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R112	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R123	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R124	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R138	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R139	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R140	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R141	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R142	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R143	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R144	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R149	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R150	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R151	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R152	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R153	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R154	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R163	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R164	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R165	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R166	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R173	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R174	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R178	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1803	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1804	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1829	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R1834	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1845	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1846	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R1852	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R1862	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1867	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1873	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1878	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1886	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1902	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1906	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1908	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00% D
		R663	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00% D
		R679	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00% D
		R703	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R808	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R809	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R810	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R811	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R856	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R857	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R897	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R901	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R902	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R903	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R904	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R965	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R966	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R130	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R131	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R1600	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1807	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00% D
		R1808	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00% D
		R1811	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1814	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1819	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1821	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1824	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1849	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R1854	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1882	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1885	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1891	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1892	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1904	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00% D
		R1910	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1911	0RH0432D622	43 OHM 1 / 10 W 2012 5.00% D
		R1925	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R1926	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R601	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R602	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R603	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R646	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R648	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R649	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R671	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R672	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R676	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R677	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R681	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R682	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R683	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R684	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R685	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R686	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R697	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R698	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R707	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R814	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R817	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R820	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R826	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R829	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R832	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R838	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R841	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R844	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R864	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R865	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R947	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R948	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R949	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R952	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R953	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R954	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R975	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R987	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R988	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R989	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R990	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R991	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R992	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R993	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R994	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R995	0RH0432D622	43 OHM 1 / 10 W 2012 5.00% D
		OTHERs		
		TU801	6634VDN002H	UMX-NT-029 UGCOM 75 OHM 2INPUT
		L605	6210VC0006A	FBMH3216 HM501NT TAIYOYUDEN 3.
		L606	6210VC0006A	FBMH3216 HM501NT TAIYOYUDEN 3.
		T801	6200J00011B	H354LAI-K5225 TOKO R/TP BAND P
		T802	6200J00011B	H354LAI-K5225 TOKO R/TP BAND P
		T803	6200J00011A	H354LAI-K5202 TOKO R/TP BAND P

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		T804	6200J00011A	H354LAI-K5202 TOKO R/TP BAND P
		JAV1	6613V00024A	PPJ152-01 PARK ELEC AV JACK NO
		JDAU1	6613V00023A	PPJ151-01 PARK-ELEC PIN JACK N
		JRCA1	6613V00024B	PPJ152-02 PARK ELEC DVD JACK N
		JA101	6612BBBHN4A	TOTX179 TOSHIBA OPTIC TX MODUL
		JA102	6612BBBHN4B	TORX179 TOSHIBA S/PDIF OPTICAL
		JA103	6612BBBHN4B	TORX179 TOSHIBA S/PDIF OPTICAL
		JSA1	380-363G	6046B-01S PARKELEC H=8.0 WITH
		PCA1	6612VCH003B	PEJ012C PARK ELEC H=6.5 STEREO
		LD801	0DL233309AC	SAM2333 TP KWANG GREEN/RED GRE
		X801	6212AB2015A	HC-49/SM4H BUBANG 4MHZ +/- 30
		X802	6212AB2015B	HC-49/SM5H BUBANG 20MHZ +/- 30
		X902	6202VDT002H	SX-1 SUNNY 18.432000MHZ +/-30
		MAIN BOARD(DIGITAL)		
		CAPACITOR		
		C129	0CH3105F946	1UF 16V Z F 2012 R/TP
		C130	0CH3105F946	1UF 16V Z F 2012 R/TP
		C131	0CH3105F946	1UF 16V Z F 2012 R/TP
		C140	0CH3105F946	1UF 16V Z F 2012 R/TP
		C506	0CH3472K516	4700PF 50V K B 2012 R/TP
		C689	0CH3105F946	1UF 16V Z F 2012 R/TP
		C108	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C109	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C1350	0CH6080K116	8PF 50V D NP0 2012 R/TP
		C1351	0CH6560K416	56PF 50V J NP0 2012 R/TP
		C306	0CH6030K116	3PF 50V D NP0 2012 R/TP
		C307	0CH6030K116	3PF 50V D NP0 2012 R/TP
		C359	0CH6030K116	3PF 50V D NP0 2012 R/TP
		C360	0CH6030K116	3PF 50V D NP0 2012 R/TP
		C450	0CH6080K116	8PF 50V D NP0 2012 R/TP
		C856	0CH6221K416	220PF 50V J NP0 2012 R/TP
		C863	0CH6561K416	560PF 50V J NP0 2012 R/TP
		C865	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C866	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C1310	0CH6221K416	220PF 50V J NP0 2012 R/TP
		C1331	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C142	0CH6221K416	220PF 50V J NP0 2012 R/TP
		C143	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C684	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C686	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C860	0CH6221K416	220PF 50V J NP0 2012 R/TP
		C311	0CH2473K516	47000P 50V K B 2.0X1.25 R/TP
		C363	0CH2473K516	47000P 50V K B 2.0X1.25 R/TP
		C300	0CH2473K516	47000P 50V K B 2.0X1.25 R/TP
		C313	0CH2473K516	47000P 50V K B 2.0X1.25 R/TP
		C314	0CH2473K516	47000P 50V K B 2.0X1.25 R/TP
		C315	0CH2473K516	47000P 50V K B 2.0X1.25 R/TP
		C100	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C101	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C102	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C103	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C104	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C105	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C106	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C107	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C110	0CH5821K416	820PF 50V 5% NP0 2012 R/TP
		C111	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C112	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C116	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C118	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C119	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C120	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C122	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C126	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C127	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1302	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1305	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1306	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1313	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1326	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1400	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C201	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C202	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C203	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C204	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C205	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C207	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C208	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C209	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C210	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C211	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C212	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C214	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C215	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C220	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C221	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C222	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C223	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C224	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C225	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C226	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C227	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C228	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C229	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C230	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C231	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C232	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C233	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C234	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C235	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C236	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C237	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C239	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C240	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C242	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C243	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C247	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C248	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C249	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C250	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C251	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C252	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C253	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C254	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C255	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C256	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C258	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C259	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C260	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C261	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C262	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C265	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C266	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C267	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C268	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C269	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C276	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C277	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C278	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C279	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C280	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C281	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C282	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C283	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C284	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C285	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C286	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C287	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C288	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C289	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C290	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C291	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C292	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C293	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C294	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C295	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C296	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C297	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C298	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C299	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C305	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C310	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C316	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C317	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C318	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C320	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C321	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C323	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C324	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C325	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C326	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C327	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C328	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C329	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C330	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C331	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C332	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C334	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C336	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C348	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C349	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C351	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C352	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C353	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C354	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C362	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C367	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C385	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C395	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C396	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C409	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C410	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C411	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C412	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C413	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C414	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C415	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C417	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C421	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C443	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C460	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C503	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C510	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C554	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C604	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C605	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C606	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C607	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C608	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C609	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C614	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C616	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C617	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C618	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C619	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C620	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C621	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C623	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C625	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C657	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C658	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C659	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C660	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C661	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C663	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C665	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C666	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C667	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C668	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C669	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C670	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C671	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C672	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C673	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C674	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C676	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C678	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C679	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C692	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C803	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C805	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C808	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C809	0CH5100K416	10PF 50V 5% NP0 2012 R/TP
		C810	0CH5100K416	10PF 50V 5% NP0 2012 R/TP
		C811	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C814	0CH5100K416	10PF 50V 5% NP0 2012 R/TP
		C815	0CH5100K416	10PF 50V 5% NP0 2012 R/TP
		C819	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C820	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C821	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C832	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C835	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C854	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C855	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C858	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C861	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C876	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C877	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C880	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C883	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C900	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C901	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C902	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C903	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C904	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C905	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C906	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C907	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C908	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C909	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C910	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C911	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C912	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C913	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C914	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C915	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C916	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C917	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C113	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C114	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C115	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C117	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1200	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C121	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C123	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C1309	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C1314	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1315	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1319	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C1321	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C1325	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C133	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C134	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1403	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C1405	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1408	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C200	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C213	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C216	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C217	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C218	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C219	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C238	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C241	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C244	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C245	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C246	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C257	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C263	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C264	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C270	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C271	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C272	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C273	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C274	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C275	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C303	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C304	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C319	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C322	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C333	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C335	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C339	0CH3823K516	82000PF 2012 50V 10% B(Y5P) R/
		C340	0CH3822K516	8200PF 2012 50V 10% B(Y5P) R/T
		C347	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C350	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C355	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C356	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C361	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C369	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C370	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C387	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C404	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C423	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C425	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C431	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C432	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C451	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C500	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C505	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C507	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C508	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C509	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C551	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C602	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C615	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C627	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C629	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C642	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C650	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C662	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C664	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C675	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C680	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C681	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C682	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C683	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C688	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C800	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C824	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C828	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C831	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C836	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C839	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C841	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C843	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C846	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C848	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C851	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C868	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C870	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C920	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C921	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C923	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C925	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C926	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C864	0CH2102K516	1000PF 50V 10% B(Y5P) 2012 R/T
		C879	0CH2334F566	0.33UF 16V 10% X7R 2012 R/TP
		C301	0CH2102K516	1000PF 50V 10% B(Y5P) 2012 R/T
		C357	0CH2474F566	0.47UF 16V 10% X7R 2012 R/TP

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C358	0CH2102K516	1000PF 50V 10% B(Y5P) 2012 R/T
		C838	0CH2334F566	0.33UF 16V 10% X7R 2012 R/TP
		C845	0CH2334F566	0.33UF 16V 10% X7R 2012 R/TP
		C850	0CH2334F566	0.33UF 16V 10% X7R 2012 R/TP
		C825	0CE227DK618	220UF STD 50V M FL TP5
		C829	0CE227DK618	220UF STD 50V M FL TP5
		C1201	0CH8106F691	10UF 16V 20% 105STD (CYL) R/TP
		C124	0CH8106F691	10UF 16V 20% 105STD (CYL) R/TP
		C125	0CH8106F691	10UF 16V 20% 105STD (CYL) R/TP
		C1300	0CH8106F691	10UF 16V 20% 105STD (CYL) R/TP
		C1301	0CH8226F691	22UF 16V 20% 105STD (CYL) R/TP
		C1303	0CH8106F691	10UF 16V 20% 105STD (CYL) R/TP
		C1304	0CH8226F691	22UF 16V 20% 105STD (CYL) R/TP
		C1307	0CH8226F691	22UF 16V 20% 105STD (CYL) R/TP
		C1316	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C1317	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C1318	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C132	0CH8105K691	1UF 50V 20% 105STD (CYL) R/TP
		C1320	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C1324	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C1327	0CH8226F691	22UF 16V 20% 105STD (CYL) R/TP
		C1328	0CH8106F691	10UF 16V 20% 105STD (CYL) R/TP
		C1337	0CH8226F691	22UF 16V 20% 105STD (CYL) R/TP
		C1401	0CE476WK6DC	47UF MVK 50V 20% R/TP(SMD) SMD
		C1406	0CH8226F691	22UF 16V 20% 105STD (CYL) R/TP
		C1407	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C1410	0CE476WK6DC	47UF MVK 50V 20% R/TP(SMD) SMD
		C1414	0CH8477F691	470UF MVK 16V 20% SMD R/TP(SMD
		C206	0CH8226F691	22UF 16V 20% 105STD (CYL) R/TP
		C302	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
		C312	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C346	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C364	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C368	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
		C371	0CH8106F691	10UF 16V 20% 105STD (CYL) R/TP
		C384	0CH8106F691	10UF 16V 20% 105STD (CYL) R/TP
		C386	0CH8106F691	10UF 16V 20% 105STD (CYL) R/TP
		C393	0CH8226F691	22UF 16V 20% 105STD (CYL) R/TP
		C394	0CH8476F691	47UF 16V 20% 105STD (CYL) R/TP
		C397	0CH8226F691	22UF 16V 20% 105STD (CYL) R/TP
		C398	0CH8476F691	47UF 16V 20% 105STD (CYL) R/TP
		C406	0CH8106F691	10UF 16V 20% 105STD (CYL) R/TP
		C416	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C420	0CH8106F691	10UF 16V 20% 105STD (CYL) R/TP
		C424	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD) SM
		C430	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD) SM
		C442	0CH8226F691	22UF 16V 20% 105STD (CYL) R/TP
		C504	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
		C550	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
		C555	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
		C601	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C622	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C624	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C626	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C628	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C637	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C639	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C643	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C677	0CH8476F691	47UF 16V 20% 105STD (CYL) R/TP
		C801	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C802	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C804	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C806	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SMD
		C807	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
		C812	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C813	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) SMD
		C816	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C818	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SMD
		C822	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C823	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C827	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SMD
		C830	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SMD
		C833	0CH8477F691	470UF MVK 16V 20% SMD R/TP(SMD
		C837	0CH8476F691	47UF 16V 20% 105STD (CYL) R/TP
		C840	0CH8476F691	47UF 16V 20% 105STD (CYL) R/TP
		C842	0CH8476F691	47UF 16V 20% 105STD (CYL) R/TP
		C844	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C847	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C849	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C852	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
		C853	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
		C857	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
		C859	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C867	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
		C869	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C875	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
		C878	0CH8476F691	47UF 16V 20% 105STD (CYL) R/TP
		C881	0CH8226F691	22UF 16V 20% 105STD (CYL) R/TP
		C884	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
		C918	0CH8106F691	10UF 16V 20% 105STD (CYL) R/TP
		C919	0CH8476F691	47UF 16V 20% 105STD (CYL) R/TP
		C922	0CH8106F691	10UF 16V 20% 105STD (CYL) R/TP
		DIODEs		
		D601	0DRSE00018A	SRV05-4.TC SEMTECH R/TP SOT23-
		D602	0DRSE00018A	SRV05-4.TC SEMTECH R/TP SOT23-
		D603	0DRSE00018A	SRV05-4.TC SEMTECH R/TP SOT23-
		D604	0DRSE00018A	SRV05-4.TC SEMTECH R/TP SOT23-
		D811	0DS181009AA	KDS181 TP KEC SOT-23 80V 300
		D100	0DD184009AA	KDS184 TP KEC - 85V - - - 300M
		D410	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D600	0DD184009AA	KDS184 TP KEC - 85V - - - 300M
		D611	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D612	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D613	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D614	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D615	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D616	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D617	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D618	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D800	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D801	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D802	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		IC		
		IC500	0ICB841500D	CS8415AR-CSR 28PIN SOIC R/TP A
		IC200	0ICTMLG009A	LGDT1102 HD2 LG IC SBGA-432PI
		IC315	0ICTMLG013A	LGDT1901A LG IC 24P SSOP TRAY
		IC607	0ICTMLG014A	LGDT3302 LG IC 100P TQFP TRAY
		IC810	0IZZTSZ421A	DU-42LZ30 OTP MICOM
		IC101	0IZZTSZ418A	DU-42LZ30 FLASH MEMORY
		IC102	0IZZTSZ420A	DU-42LZ30 FLASH MEMORY

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		IC820	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VOLTA
		IC105	0IKE702900G	KIA7029AF SOT-89 TP 2.9V VOLTA
		IC300	0ILNRMN005A	VPX3226E MICRONAS 44 QFP TRAY
		IC308	0ILNRMN005A	VPX3226E MICRONAS 44 QFP TRAY
		IC103	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELECTR
		IC104	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELECTR
		IC107	0IAL242561B	AT24C256W-10SI-2.7V 8P SOIC ST
		IC210	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELECTR
		IC211	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELECTR
		IC212	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELECTR
		IC213	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELECTR
		IC601	0IMMRAL014B	AT24C02N-10SI-2.7 ATMEL 8P SOI
		IC830	0IMCRAL006A	AT24C16AN-10SI-2.7 ATMEL 8P SO
		IC314	0IMCRXL004A	XC95288XL-10TQ144C XILINX 144
		IC100	0IMCRSS016A	S3C44BOX01-EDRO SAMSUNG ELECTR
		IC109	0IMCRPH026A	PCA9516PW PHILIPS 16P TSSOP R/
		IC110	0IMCRSG010A	ST3232CDR SGS-THOMSON SOP16 R/
		IC314	0IMCRXL004A	XC95288XL-10TQ144C XILINX 144
		IC316	0IMCRCY002A	CY2309SC-1HT CYPRESS SOIC 16P
		IC603	0IMCRS5003A	SIL169CT100 SILICON IMAGE 100P
		IC900	0IMCRJP001A	J-L003 JEPICO 176P QFP TRAY IM
		IC301	0IPRPAD008B	AD9883AKST-110 ANALOG DEVICE 8
		IC450	0ITH638300B	"THC63LVDM83R THINE 56P,TSSOP R"
		IC602	0IPH827150A	P82B715T 8SOP R/TP IIC EXTENDE
		IC400	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SOT22
		IC401	0IPRPML001A	MIC39100 MICREL 3P SOT223 R/TP
		IC410	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R/T"
		IC411	0IPMGSG021A	L7812CD2T SGS-THOMSON 2P D2PAK
		IC606	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SOT22
		IC800	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R/T"
		IC801	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R/T"
		IC802	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R/T"
		IC910	0IPRPML001A	MIC39100 MICREL 3P SOT223 R/TP
		IC402	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULATOR
		IC805	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULATOR
		IC106	0IPH741400E	74HC14D 14SOP TP SHITTER TRIGG
		IC503	0ITO741570C	"TC74LCX157FT 16P,TSSOP TP QUAD"
		IC504	0IMCRFA014A	74F04SCX FAIRCHILD 14P SOIC R/
		COIL & CORE		
		L809	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.
		L810	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.
		R408	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		B310	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B311	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B400	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B403	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B510	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B550	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B551	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B601	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B800	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B900	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		L803	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216-6
		B200	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B303	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B304	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B305	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B306	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B307	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		B312	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B313	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B314	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B402	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B411	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B412	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B414	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B600	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B602	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B603	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B611	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B612	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B620	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B801	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B802	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B803	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B804	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B805	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B806	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B820	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B821	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B822	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B823	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B824	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B825	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		B901	0LCML00002A	MLB-321611-0120A-N1 MAG LAYERS
		B902	0LCML00002B	MLB-321611-0050P-N1 6A MAG LAY
		L308	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216-6
		L309	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216-6
		L800	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216-6
		L801	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216-6
		L802	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216-6
		L804	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216-6
		L805	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216-6
		L806	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216-6
		L807	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216-6
		L808	0LC6832101A	6.8UH 10% 3216 R/TC FI-C3216-6
		L817	0LC3332101A	33UH 10% 3216 R/TC FI-D3216-33
		L818	0LC3332101A	33UH 10% 3216 R/TC FI-D3216-33
FET & TRANSISTOR				
		IC460	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A SO
		Q100	0TR102008AA	KRA102S R/TP KEC SOT23 CHIP TR
		Q101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q552	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q553	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q554	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q812	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q305	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q306	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q307	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q308	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q309	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q310	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q311	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q410	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q411	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q600	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNEL
		Q601	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNEL
		Q602	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q800	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		Q801	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q802	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC - -
		Q810	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q811	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
RESISTORs				
		R109	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1117	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1118	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1119	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R129	0RH3901D622	3.9K 1/10W 5 D.R/TP
		R130	0RH3901D622	3.9K 1/10W 5 D.R/TP
		R167	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R183	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R184	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R185	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R186	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R187	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R188	0RH3901D622	3.9K 1/10W 5 D.R/TP
		R227	0RH3900D622	390 1/10W 5 D.R/TP
		R233	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R244	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R257	0RH2200D622	220 1/10W 5 D.R/TP
		R258	0RH2200D622	220 1/10W 5 D.R/TP
		R261	0RH2200D622	220 1/10W 5 D.R/TP
		R301	0RH4702D622	47K 1/10W 5 D.R/TP
		R352	0RH4702D622	47K 1/10W 5 D.R/TP
		R396	0RH0682D622	68 1/10W 5 D.R/TP
		R561	0RH1000D622	100 1/10W 5 D.R/TP
		R562	0RH1000D622	100 1/10W 5 D.R/TP
		R563	0RH1000D622	100 1/10W 5 D.R/TP
		R564	0RH0332D622	33 1/10W 5 D.R/TP
		R565	0RH0332D622	33 1/10W 5 D.R/TP
		R603	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R604	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R605	0RH0332D622	33 1/10W 5 D.R/TP
		R606	0RH0332D622	33 1/10W 5 D.R/TP
		R616	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R685	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R807	0RH1000D622	100 1/10W 5 D.R/TP
		R808	0RH1000D622	100 1/10W 5 D.R/TP
		R809	0RH1000D622	100 1/10W 5 D.R/TP
		R810	0RH1000D622	100 1/10W 5 D.R/TP
		R811	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R826	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R828	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R830	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R834	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R836	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R837	0RH1000D622	100 1/10W 5 D.R/TP
		R838	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R843	0RH4700D622	470 1/10W 5 D.R/TP
		R844	0RH1004D622	1.0M 1/10W 5 D.R/TP
		R849	0RH1000D622	100 1/10W 5 D.R/TP
		R865	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R868	0RH1000D622	100 1/10W 5 D.R/TP
		R869	0RH4702D622	47K 1/10W 5 D.R/TP
		R870	0RH1000D622	100 1/10W 5 D.R/TP
		R871	0RH1000D622	100 1/10W 5 D.R/TP
		R878	0RH3300D622	330 1/10W 5 D.R/TP
		R882	0RH4701D622	4.7K 1/10W 5 D.R/TP

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R105	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1120	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R120	0RH1000D622	100 1/10W 5 D.R/TP
		R1329	0RH5600D622	560 1/10W 5 D.R/TP
		R1334	0RH0272D622	27 1/10W 5 D.R/TP
		R1335	0RH0682D622	68 1/10W 5 D.R/TP
		R1342	0RH3300D622	330 1/10W 5 D.R/TP
		R1346	0RH3300D622	330 1/10W 5 D.R/TP
		R1349	0RH3300D622	330 1/10W 5 D.R/TP
		R135	0RH6201D622	6.2K 1/10W 5 D.R/TP
		R1350	0RH4700D622	470 1/10W 5 D.R/TP
		R1351	0RH4700D622	470 1/10W 5 D.R/TP
		R1352	0RH4700D622	470 1/10W 5 D.R/TP
		R1353	0RH1000D622	100 1/10W 5 D.R/TP
		R1354	0RH1000D622	100 1/10W 5 D.R/TP
		R1355	0RH1000D622	100 1/10W 5 D.R/TP
		R1356	0RH4300D622	CHIP 430-J 1/10 W
		R1357	0RH4300D622	CHIP 430-J 1/10 W
		R1358	0RH4300D622	CHIP 430-J 1/10 W
		R136	0RH6201D622	6.2K 1/10W 5 D.R/TP
		R1368	0RH5600D622	560 1/10W 5 D.R/TP
		R1369	0RH1202D622	12K 1/10W 5 D.R/TP
		R1370	0RH1202D622	12K 1/10W 5 D.R/TP
		R1371	0RH3300D622	330 1/10W 5 D.R/TP
		R1372	0RH5101D622	5.1K 1/10W 5 D.R/TP
		R1373	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R1374	0RH4702D622	47K 1/10W 5 D.R/TP
		R1375	0RH4702D622	47K 1/10W 5 D.R/TP
		R1376	0RH1202D622	12K 1/10W 5 D.R/TP
		R1377	0RH1202D622	12K 1/10W 5 D.R/TP
		R1378	0RH3300D622	330 1/10W 5 D.R/TP
		R1379	0RH3300D622	330 1/10W 5 D.R/TP
		R1380	0RH1202D622	12K 1/10W 5 D.R/TP
		R1381	0RH1202D622	12K 1/10W 5 D.R/TP
		R139	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R140	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R148	0RH3300D622	330 1/10W 5 D.R/TP
		R149	0RH1000D622	100 1/10W 5 D.R/TP
		R150	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R176	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R200	0RH3900D622	390 1/10W 5 D.R/TP
		R221	0RH0752D622	75 1/10W 5 D.R/TP
		R222	0RH0752D622	75 1/10W 5 D.R/TP
		R223	0RH0752D622	75 1/10W 5 D.R/TP
		R224	0RH0512D622	51 1/10W 5 D.R/TP
		R225	0RH0512D622	51 1/10W 5 D.R/TP
		R226	0RH0512D622	51 1/10W 5 D.R/TP
		R2300	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R2301	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R2302	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R2303	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R2306	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R2308	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R2312	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R234	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R248	0RH0332D622	33 1/10W 5 D.R/TP
		R254	0RH2200D622	220 1/10W 5 D.R/TP
		R302	0RH4702D622	47K 1/10W 5 D.R/TP
		R303	0RH4702D622	47K 1/10W 5 D.R/TP
		R310	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R315	0RH1000D622	100 1/10W 5 D.R/TP
		R316	0RH2701D622	2.7K 1/10W 5 D.R/TP

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R329	0RH1602D622	16K 1/10W 5 TA
		R331	0RH3300D622	330 1/10W 5 D.R/TP
		R332	0RH4702D622	47K 1/10W 5 D.R/TP
		R333	0RH4702D622	47K 1/10W 5 D.R/TP
		R334	0RH4702D622	47K 1/10W 5 D.R/TP
		R335	0RH4702D622	47K 1/10W 5 D.R/TP
		R336	0RH4702D622	47K 1/10W 5 D.R/TP
		R337	0RH4702D622	47K 1/10W 5 D.R/TP
		R338	0RH4702D622	47K 1/10W 5 D.R/TP
		R339	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R340	0RH0102D622	10 1/10W 5 D.R/TP
		R345	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R358	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R367	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R371	0RH6802D622	68K 1/10W 5 D.R/TP
		R397	0RH0272D622	27 1/10W 5 D.R/TP
		R492	0RH3300D622	330 1/10W 5 D.R/TP
		R502	0RH1201D622	1.2K 1/10W 5 D.R/TP
		R503	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R505	0RH4702D622	47K 1/10W 5 D.R/TP
		R600	0RH1000D622	100 1/10W 5 D.R/TP
		R609	0RH0332D622	33 1/10W 5 D.R/TP
		R610	0RH0332D622	33 1/10W 5 D.R/TP
		R612	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R613	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R618	0RH1000D622	100 1/10W 5 D.R/TP
		R619	0RH1000D622	100 1/10W 5 D.R/TP
		R625	0RH1000D622	100 1/10W 5 D.R/TP
		R626	0RH1000D622	100 1/10W 5 D.R/TP
		R628	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R630	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R632	0RH0102D622	10 1/10W 5 D.R/TP
		R635	0RH3300D622	330 1/10W 5 D.R/TP
		R640	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R641	0RH3300D622	330 1/10W 5 D.R/TP
		R642	0RH3300D622	330 1/10W 5 D.R/TP
		R663	0RH3001D622	3.0K 1/10W 5 D.R/TP
		R666	0RH0512D622	51 1/10W 5 D.R/TP
		R670	0RH1004D622	1.0M 1/10W 5 D.R/TP
		R801	0RH0102D622	10 1/10W 5 D.R/TP
		R805	0RH0822D622	82 1/10W 5 D.R/TP
		R814	0RH0102D622	10 1/10W 5 D.R/TP
		R816	0RH1202D622	12K 1/10W 5 D.R/TP
		R818	0RH4700D622	470 1/10W 5 D.R/TP
		R827	0RH1000D622	100 1/10W 5 D.R/TP
		R829	0RH1000D622	100 1/10W 5 D.R/TP
		R831	0RH1000D622	100 1/10W 5 D.R/TP
		R833	0RH1000D622	100 1/10W 5 D.R/TP
		R835	0RH1000D622	100 1/10W 5 D.R/TP
		R839	0RH1000D622	100 1/10W 5 D.R/TP
		R840	0RH1000D622	100 1/10W 5 D.R/TP
		R841	0RH1000D622	100 1/10W 5 D.R/TP
		R846	0RH1004D622	1.0M 1/10W 5 D.R/TP
		R847	0RH1000D622	100 1/10W 5 D.R/TP
		R850	0RH1000D622	100 1/10W 5 D.R/TP
		R851	0RH1000D622	100 1/10W 5 D.R/TP
		R855	0RH1000D622	100 1/10W 5 D.R/TP
		R856	0RH1000D622	100 1/10W 5 D.R/TP
		R857	0RH1000D622	100 1/10W 5 D.R/TP
		R858	0RH1000D622	100 1/10W 5 D.R/TP
		R859	0RH1000D622	100 1/10W 5 D.R/TP
		R864	0RH1000D622	100 1/10W 5 D.R/TP

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R867	0RH1000D622	100 1/10W 5 D.R/TP
		R872	0RH1000D622	100 1/10W 5 D.R/TP
		R873	0RH1000D622	100 1/10W 5 D.R/TP
		R875	0RH3300D622	330 1/10W 5 D.R/TP
		R877	0RH3300D622	330 1/10W 5 D.R/TP
		R903	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R904	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R905	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R962	0RH0332D622	33 1/10W 5 D.R/TP
		AR100	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5% R/TP
		AR101	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5% R/TP
		AR302	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		AR303	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		AR400	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		AR401	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		AR402	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		AR403	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		AR404	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		AR405	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		AR600	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		AR601	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		AR602	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		AR603	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		AR604	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		AR611	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		AR612	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		AR613	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4
		R496	0RS0332J609	33 1W 5 TA52
		R107	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1308	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1326	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R137	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R138	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R1396	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R152	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R153	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1699	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R177	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R178	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R192	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R193	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R194	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R195	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R197	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R208	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R210	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R212	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R218	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R228	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R243	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R247	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R249	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R250	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R251	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R259	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R260	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R262	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R263	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R264	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R267	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R269	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R271	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R273	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R275	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R354	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R361	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R362	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R395	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R398	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R399	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R411	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R420	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R453	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R454	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R495	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R499	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R513	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R514	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R558	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R559	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R560	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R607	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R615	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R693	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R694	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R695	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R696	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R697	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R698	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R806	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R832	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R848	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R860	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R861	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R876	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R879	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R880	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R881	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R884	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R890	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R891	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R893	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R909	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R911	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R100	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R101	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R102	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R103	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R106	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R110	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R111	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1113	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R112	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1121	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R116	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R117	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R119	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R121	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R122	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R123	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R124	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R125	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1322	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1323	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1324	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1325	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1327	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1330	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1331	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1332	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1340	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R1343	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R1344	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R1345	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R1347	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R1348	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R1391	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1397	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1398	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1399	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R147	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R159	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R160	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R1601	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1602	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1603	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R161	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R162	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R163	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R164	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R165	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R166	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R179	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R180	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R181	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R198	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R199	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R202	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R204	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R207	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R216	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R220	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R229	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R230	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R2305	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R231	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R2311	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R232	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R235	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R245	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R246	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R252	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R255	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R256	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R265	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R266	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R268	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R270	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R272	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R300	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R304	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00% D
		R305	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R306	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R307	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R308	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R309	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R314	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R317	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R318	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R319	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00% D
		R320	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R321	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R322	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R323	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R324	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R325	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R326	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R327	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R330	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R341	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R342	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R343	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R344	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R346	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R347	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R348	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R349	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R350	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R356	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R357	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R368	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R370	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R373	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R379	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R380	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R381	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R382	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R386	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R387	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R388	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R390	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R392	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R394	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R416	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R417	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R421	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R422	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R423	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R424	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R430	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R431	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R432	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R433	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R434	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R435	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R436	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R437	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R438	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R439	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R451	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R452	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R463	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R465	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R472	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R474	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R489	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R491	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R493	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R494	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R504	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R506	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R508	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R511	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R512	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R524	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R525	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R529	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R533	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R555	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R556	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R557	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R608	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00% D
		R617	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R621	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R622	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R623	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R624	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R631	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R633	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R638	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R639	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R643	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R644	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R664	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R665	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R671	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R672	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R673	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R674	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R675	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R676	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R682	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R684	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R687	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R688	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R689	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R690	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R691	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R692	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R699	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R800	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R802	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R803	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R804	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R812	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R813	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R815	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R817	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R820	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R822	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R824	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R842	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R845	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R874	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R885	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R887	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R900	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R901	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R902	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R906	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R907	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R908	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R910	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R912	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R913	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R914	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R915	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R916	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R917	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R918	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R919	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R920	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
OTHERs				
		IC317	6200VKR002A	LPF 2EA TA355LSK-K5216 38MHZ
		IC318	6200VKR002A	LPF 2EA TA355LSK-K5216 38MHZ
		IC319	6200VKR002A	LPF 2EA TA355LSK-K5216 38MHZ
		F400	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A RE
		F401	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A RE
		F402	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A RE
		F403	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A RE
		F404	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A RE
		F405	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A RE
		F406	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A RE
		F407	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A RE
		F408	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A RE
		F410	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2200
		F411	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2200
		F800	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A RE
		F801	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A RE
		F802	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A RE
		F810	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2200
		IC302	6200J00011A	H354LAI-K5202 TOKO R/TP BAND P
		IC303	6200J00011A	H354LAI-K5202 TOKO R/TP BAND P
		LED600	0DL233309AC	SAM2333 TP KWANG GREEN/RED GRE
		IC312	6204B60001B	VCXO BUBANG 27MHZ +/- 100 PPM
		X601	6204B47985K	BMS-873R BUBANG 25MHZ +/- 50 P
		X900	6204B47985H	SCO-103 SUNNY 74.25MHZ +/- 50
		X100	6212AB2015E	HC-49/SM BUBANG 10.0MHZ +/- 30
		X300	6202VDT002E	SX-1SMD SUNNY RADIAL 20250000H
		X301	6202VDT002E	SX-1SMD SUNNY RADIAL 20250000H
		X820	6202VDT002D	SX-1SMD SUNNY RADIAL 8.0MHZ 30
		IC810	381-204B	42PIN(1.78-15.24AMMON)
		SW100	6600VR1004A	SKHMPW 5P CHIP TACT J-ALPS NON
		TU101	6700NFNS04D	TDVB-H751P LG INOTEK ATSC/NTSC
		TU102	6700VNF019E	TAFH-H001P LG NTSC FS .
IR BOARD				
		C1000	0CN1010K519	100P 50V K B TA52
		C1001	0CE476DF618	47UF STD 16V M FL TP5
		L1000	0LA0102K119	10UH K 2.3*3.4 TP
		R1000	0RD0102F609	10 OHM 1/6 W 5% TA52
		PA1000	6726VV0006J	TSOP2238MQ1 VISHAY 38KHZ MC007
CONTROL BOARD				
		SW1501	140-313B	TACT 2LEAD 160G(TA) LG C&D NON
		SW1502	140-313B	TACT 2LEAD 160G(TA) LG C&D NON
		SW1503	140-313B	TACT 2LEAD 160G(TA) LG C&D NON
		SW1504	140-313B	TACT 2LEAD 160G(TA) LG C&D NON

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		SW1505	140-313B	TACT 2LEAD 160G(TA) LG C&D NON
		SW1506	140-313B	TACT 2LEAD 160G(TA) LG C&D NON
		SW1507	140-313B	TACT 2LEAD 160G(TA) LG C&D NON
		SW1508	140-313B	TACT 2LEAD 160G(TA) LG C&D NON
LED & P/SW BOARD				
		C1209	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C1215	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C1210	0CE3363F618	33UF SRE 16V M FL TP5
		C1211	0CE3363F618	33UF SRE 16V M FL TP5
		C1212	0CE3363F618	33UF SRE 16V M FL TP5
		C1214	0CE3363F618	33UF SRE 16V M FL TP5
		C1201	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1202	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1203	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1204	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1205	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1206	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1207	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1208	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		L1205	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		L1206	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		R1210	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		R1212	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		R1229	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		R1233	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		R1234	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		R1264	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		IC1202	0IKE657830B	KID65783AF 20PIN SOP TRAY TR A
		IC1203	0IMI623200B	"M62320FP,I/O EXPANDER 16P SOP"
		IC1201	0INE163110A	UPD16311GC-AB6 FIP DRIV 52PQFP
		L1201	0LA0102K119	10UH K 2.3*3.4 TP
		L1202	0LA0102K119	10UH K 2.3*3.4 TP
		L1207	0LA0102K119	10UH K 2.3*3.4 TP
		L1210	0LA0102K119	10UH K 2.3*3.4 TP
		LD1201	6301T00004B	"YANGWOO LED ASSEMBLY ATSC 30
		R1202	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1204	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1205	0RH0392D622	39 1/10W 5 D.R/TP
		R1208	0RH5100D622	510 1/10W 5 D.R/TP
		R1211	0RH2200D622	220 1/10W 5 D.R/TP
		R1213	0RH1000D622	100 1/10W 5 D.R/TP
		R1216	0RH0392D622	39 1/10W 5 D.R/TP
		R1218	0RH1000D622	100 1/10W 5 D.R/TP
		R1220	0RH1000D622	100 1/10W 5 D.R/TP
		R1221	0RH0392D622	39 1/10W 5 D.R/TP
		R1226	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1228	0RH0392D622	39 1/10W 5 D.R/TP
		R1230	0RH0392D622	39 1/10W 5 D.R/TP
		R1235	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1236	0RH0392D622	39 1/10W 5 D.R/TP
		R1237	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1238	0RH1500D622	150 1/10W 5 D.R/TP
		R1239	0RH1000D622	100 1/10W 5 D.R/TP
		R1240	0RH1000D622	100 1/10W 5 D.R/TP
		R1241	0RH1000D622	100 1/10W 5 D.R/TP
		R1242	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1243	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1244	0RH1000D622	100 1/10W 5 D.R/TP
		R1245	0RH1000D622	100 1/10W 5 D.R/TP
		R1246	0RH1000D622	100 1/10W 5 D.R/TP

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1247	0RH1000D622	100 1/10W 5 D.R/TP
		R1248	0RH1000D622	100 1/10W 5 D.R/TP
		R1250	0RH0392D622	39 1/10W 5 D.R/TP
		R1253	0RH0392D622	39 1/10W 5 D.R/TP
		R1257	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1258	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1260	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1261	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1262	0RH1500D622	150 1/10W 5 D.R/TP
		R1263	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1266	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1267	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1268	0RH1500D622	150 1/10W 5 D.R/TP
		R1275	0RH3302D622	33K 1/10W 5 D.R/TP
		R1276	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1277	0RH1000D622	100 1/10W 5 D.R/TP
		R1278	0RH1000D622	100 1/10W 5 D.R/TP
		R1287	0RH0392D622	39 1/10W 5 D.R/TP
		R1288	0RH0392D622	39 1/10W 5 D.R/TP
		R1289	0RH0392D622	39 1/10W 5 D.R/TP
		R1290	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1291	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1292	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1272	0RD1000F609	100 1/6W 5 TA52
		R1203	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1207	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1217	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1279	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1280	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1281	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1282	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1283	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1284	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1285	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1286	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1293	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		Q1201	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q1202	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q1203	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q1204	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q1205	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q1206	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q1207	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q1208	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q1210	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q1211	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q1212	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q1213	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q1214	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
		Q1215	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - -
AV BOARD				
		C2102	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C2104	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C2107	0CH6471K416	470F 50V J NP0 2012 R/TP
		C2108	0CH6471K416	470F 50V J NP0 2012 R/TP
		C2103	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C2106	0CH6391K416	390PF 50V 5% NP0 2012 R/TP
		L2104	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		L2105	6210TCE001A	HB-1S2012-080JT CERATEC 2012MM
		ZD2101	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20

DATE: 2004. 7. 13.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		ZD2102	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD2103	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		L2101	0LC0233002A	3.3UH CERATECH R/TP
		L2102	0LC0233002A	3.3UH CERATECH R/TP
		L2103	0LC0233002A	3.3UH CERATECH R/TP
		JA2101	6613V00010F	PMJ 016-06 PARK-ELEC MUTI JACK
		R2101	0RH0472D622	47 1/10W 5 D.R/TP
		R2102	0RH0752D622	75 1/10W 5 D.R/TP
		R2103	0RH0752D622	75 1/10W 5 D.R/TP
		R2104	0RH0752D622	75 1/10W 5 D.R/TP
		R2105	0RH0752D622	75 1/10W 5 D.R/TP
		R2106	0RH0752D622	75 1/10W 5 D.R/TP
		R2108	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R2109	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D

IC100
S3C44B0X

IC101
AT49LV160-90TI

IC102
AT49LV160-90TI

IC103
HY57V641620HGT-H

IC104
HY57V641620HGT-H

IC105
TC7SZ08FU

IC106
74HC14

IC107
AT24C256

IC109
PCA9516

IC110
ST3232CDR

Q100
KRA102S

Q101
C3675

X100
10MHz

P100

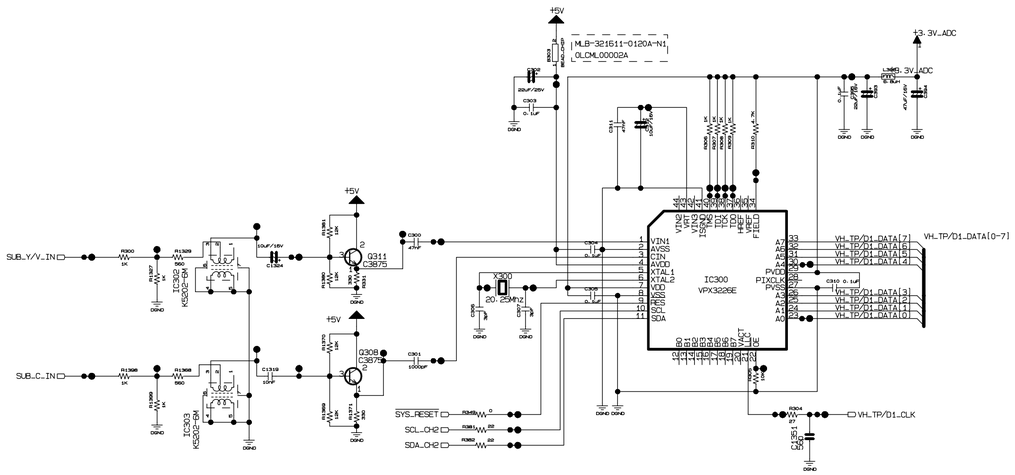
P105
CON 6PIN
Straight type

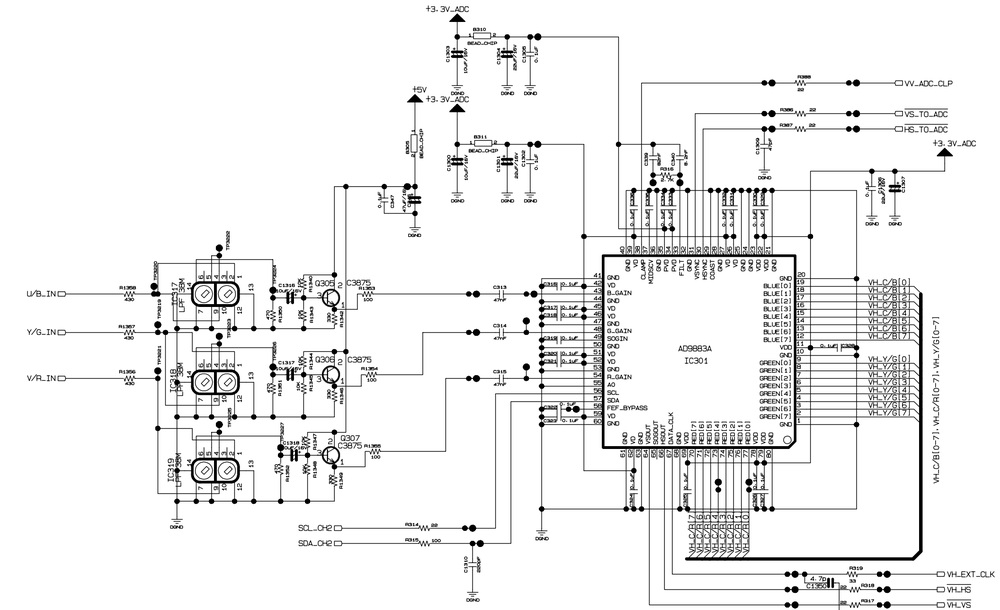
Using EEPROM

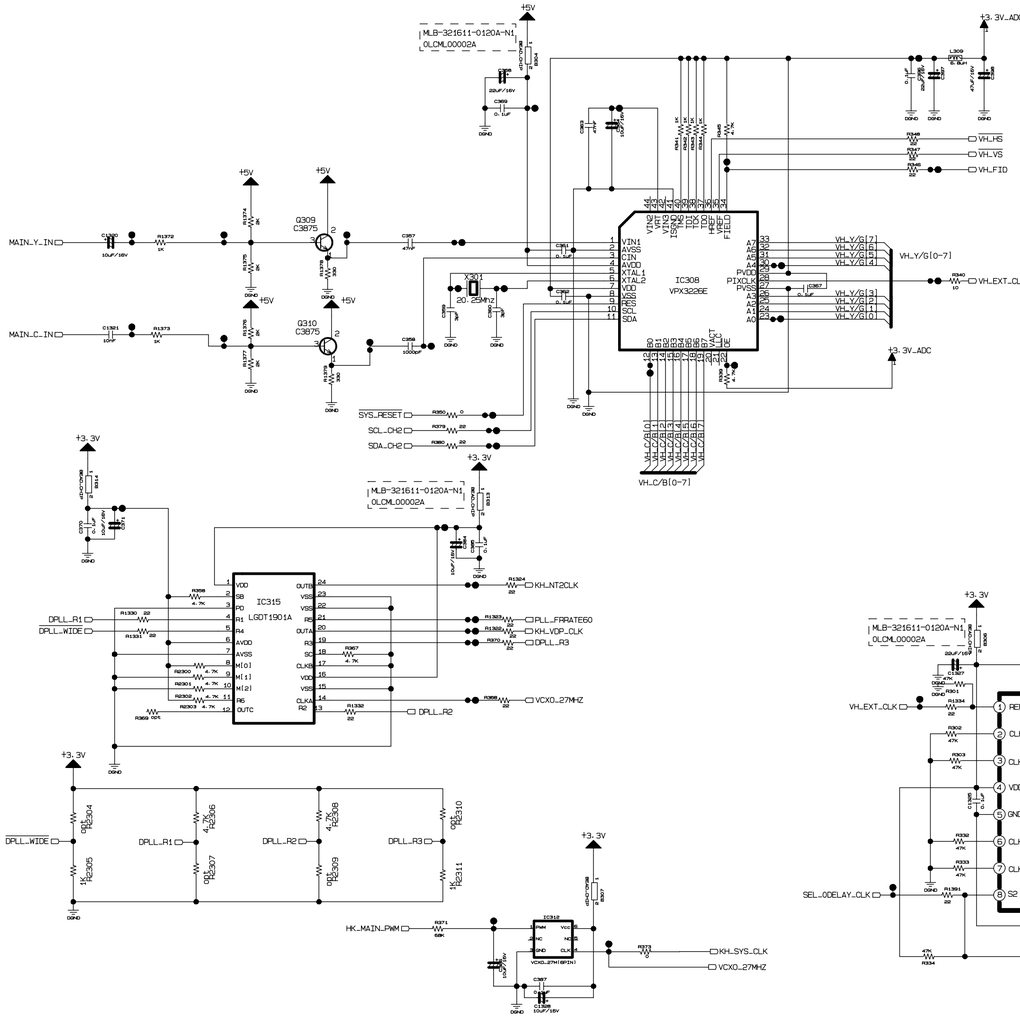
2004.03.19

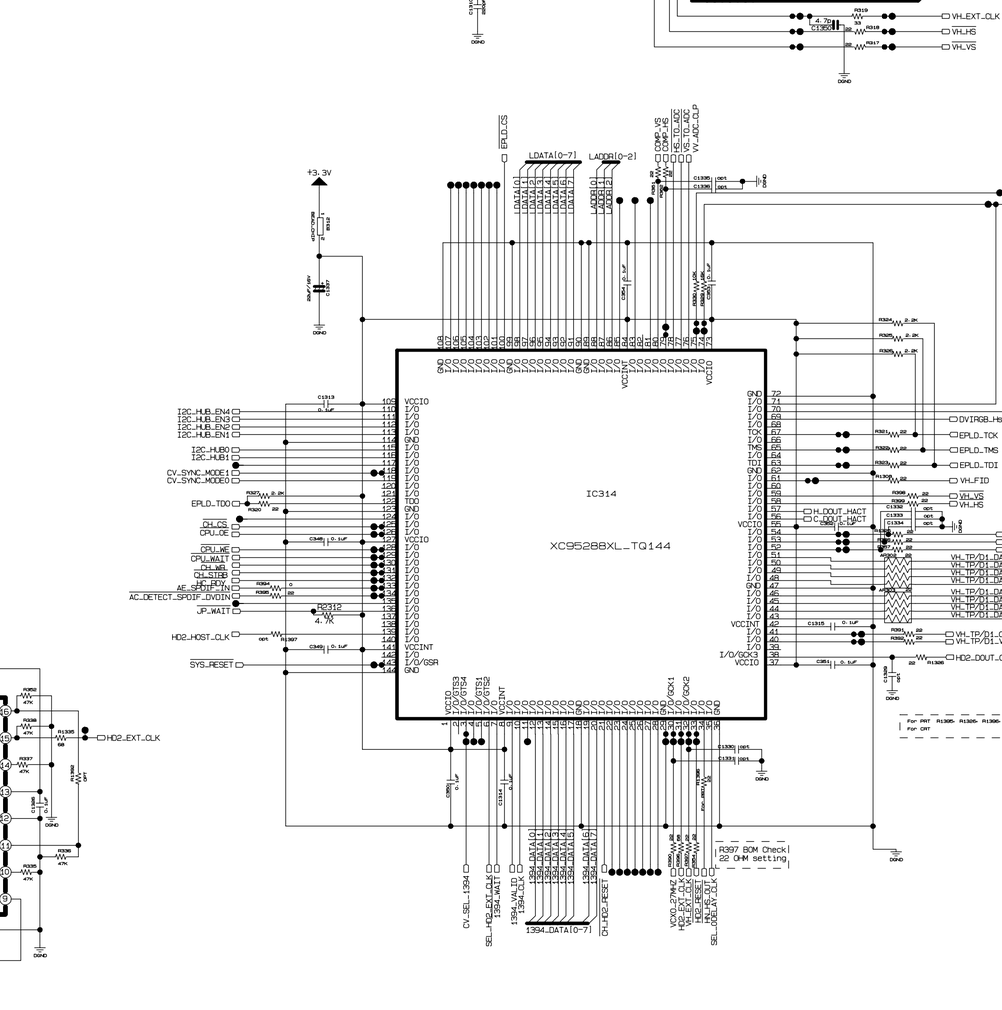
IC200

HD2

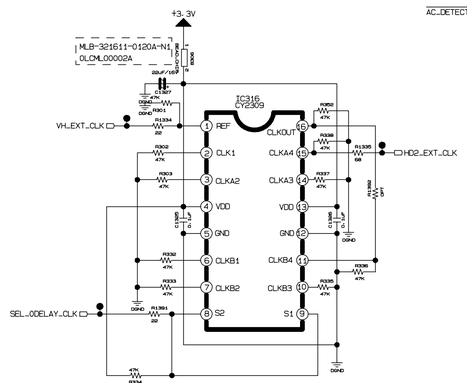

MLB-321611-0120A-N1
0LCM_00002A
+5V
+3.3V_ADC
SUB_Y/V_IN
SUB_C_IN
IC302
IC303
KS522-04
Q311
Q308
C3875
X300
20.25MHz
IC300
VPX3226E
SYS_RESET
SCL_CH2
SDA_CH2
VH_TP/D1_CLK
VH_TP/D1_DATA[0-7]


+3.3V_ADC
+5V
U/B_IN
Y/G_IN
V/R_IN
IC317
IC318
IC319
LPF-5384
Q306
Q308
Q307
C3875
AD9883A
IC301
VV_ADC_CLP
VS_TO_ADC
HS_TO_ADC
VH_C/B[0-7]
VH_Y/G[0-7]
VH_EXT_CLK
VH_HS
VH_VS
SCL_CH2
SDA_CH2

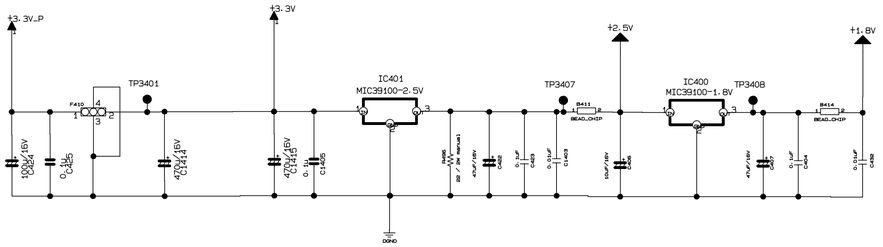

MLB-321611-0120A-N1
0LCM_00002A
+5V
+3.3V_ADC
MAIN_Y_IN
MAIN_C_IN
Q309
Q310
C3875
IC308
VPX3226E
X301
20.25MHz
SYS_RESET
SCL_CH2
SDA_CH2
VH_HS
VH_VS
VH_FID
VH_Y/G[0-7]
VH_C/B[0-7]
VH_EXT_CLK
+3.3V_ADC

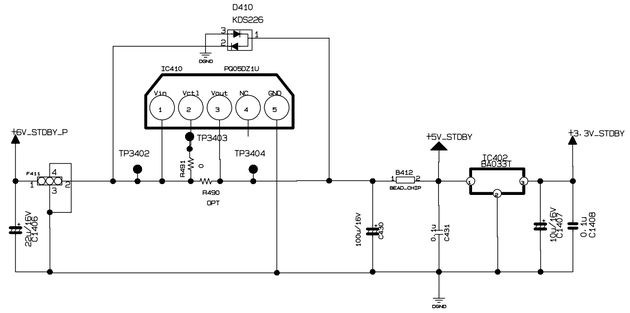

+3.3V
EPLD_CS
LDATA[0-7]
LADDR[0-2]
IC314
XC95288XL-TQ144
I2C_HUB_ENW
I2C_HUB_EN3
I2C_HUB_EN2
I2C_HUB_EN1
I2C_HUB0
I2C_HUB1
CV_SYNC_MODE1
CV_SYNC_MODE0
EPLD_TDO
CPU_CS
CPU_OE
CPU_WE
CPU_WAIT
CH_WR
CH_STBY
HC_RDY
AE_SPDIF_IN
AC_DETECT_SPDIF_DVDIN
JP_WAIT
HD2_HOST_CLK
SYS_RESET
DVIRGB_Hs_Po1
EPLD_TCK
EPLD_TMS
EPLD_TDI
VH_FID
VH_VS
VH_HS
H_DOUT_HACT
P_DOUT_HACT
DVI_DE
DVI_VS
DVI_HS
VH_TP/D1_DATA[0-7]
VH_TP/D1_CLK
VH_TP/D1_VALID
HD2_DOUT_CLK
R397 80M Check
22 OHM setting

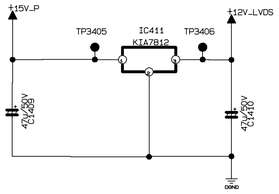
MLB-321611-0120A-N1
0LCM_00002A
+3.3V
IC315
LGDT1901A
DPLL_R1
DPLL_WIDE
DPLL_R2
DPLL_R3
KH_NT2CLK
PLL_FRRATE60
KH_VDP_CLK
VCXO_27MHZ
HK_MAIN_PWM
KH_SYS_CLK

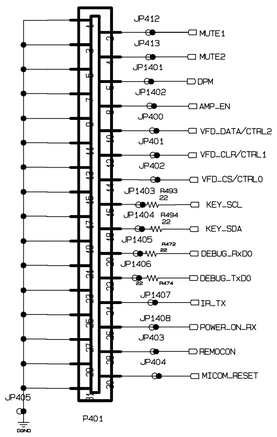

MLB-321611-0120A-N1
0LCM_00002A
+3.3V
IC316
CY2309
VH_EXT_CLK
HD2_EXT_CLK
SEL_0DELAY_CLK

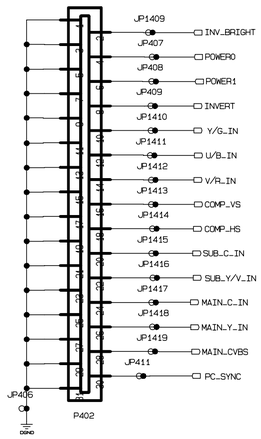
Power & Connectors

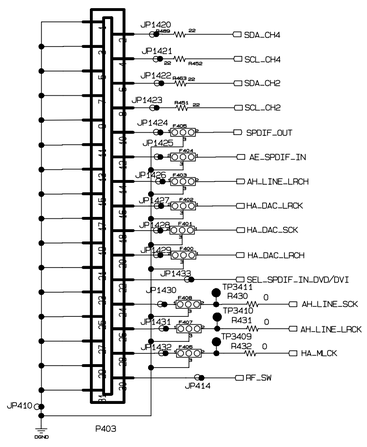




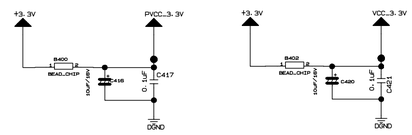


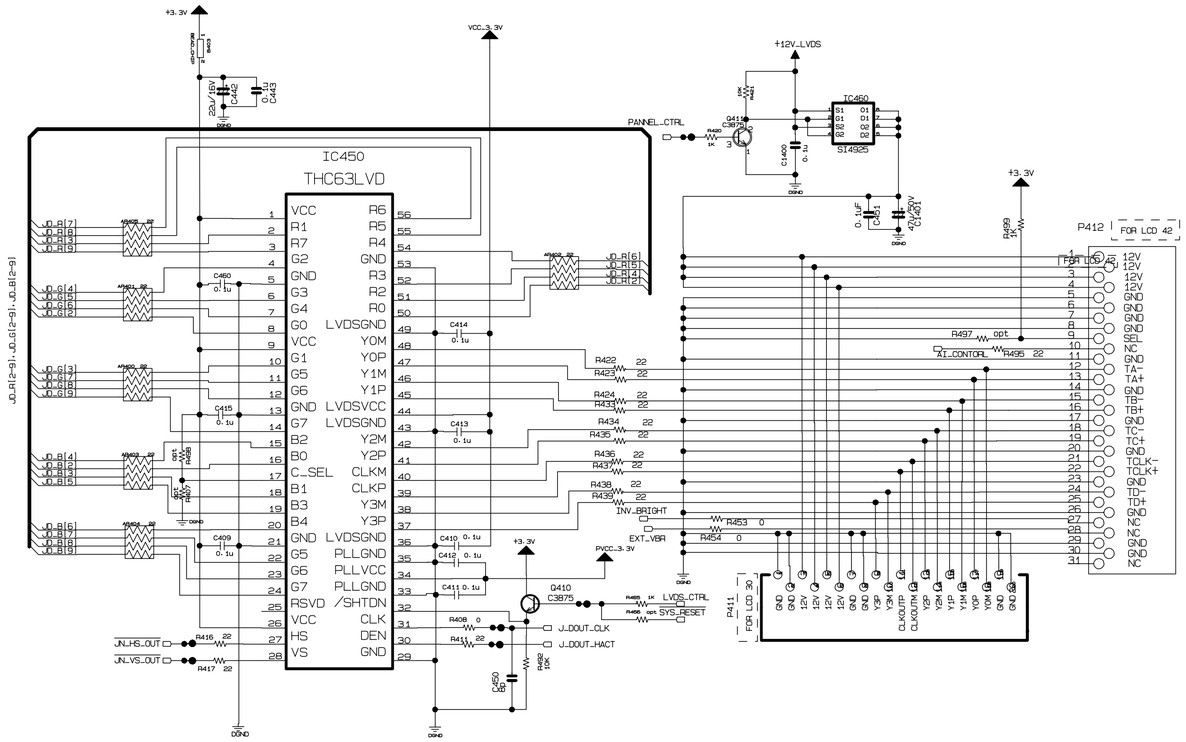


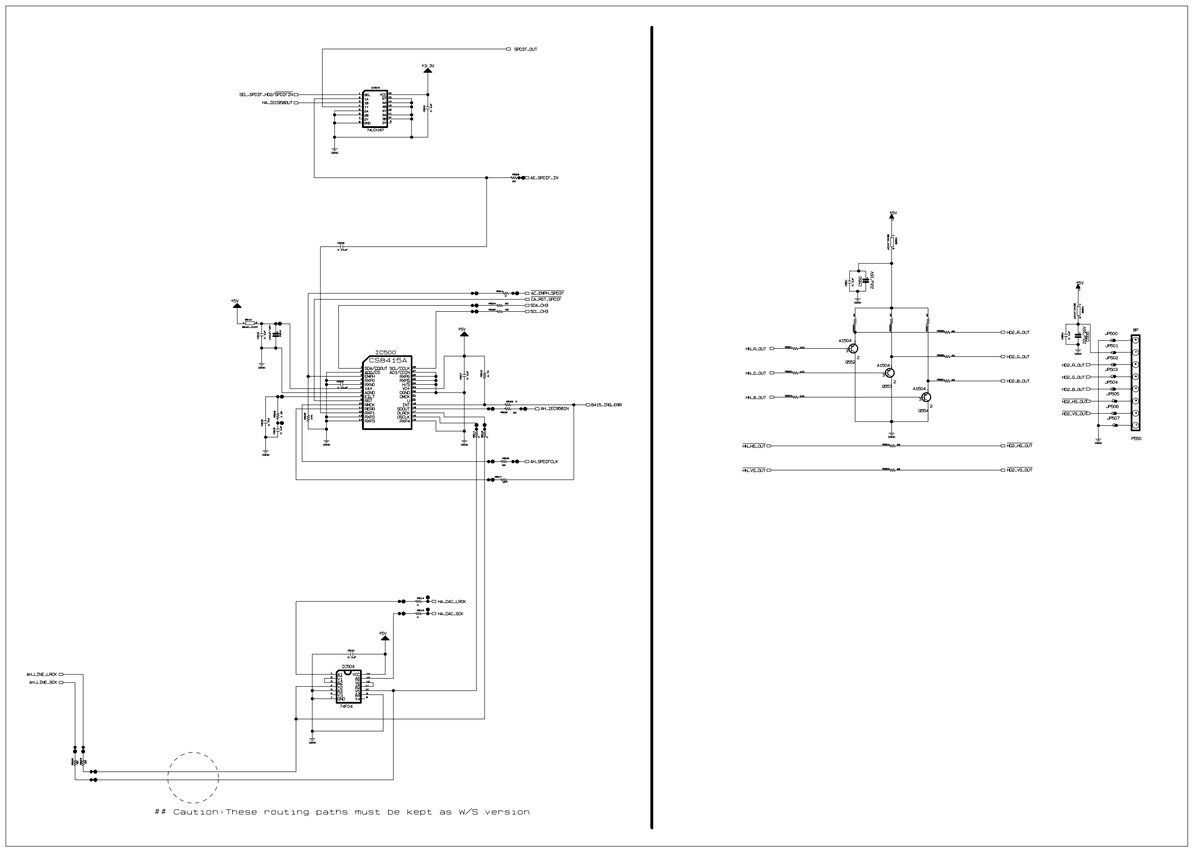


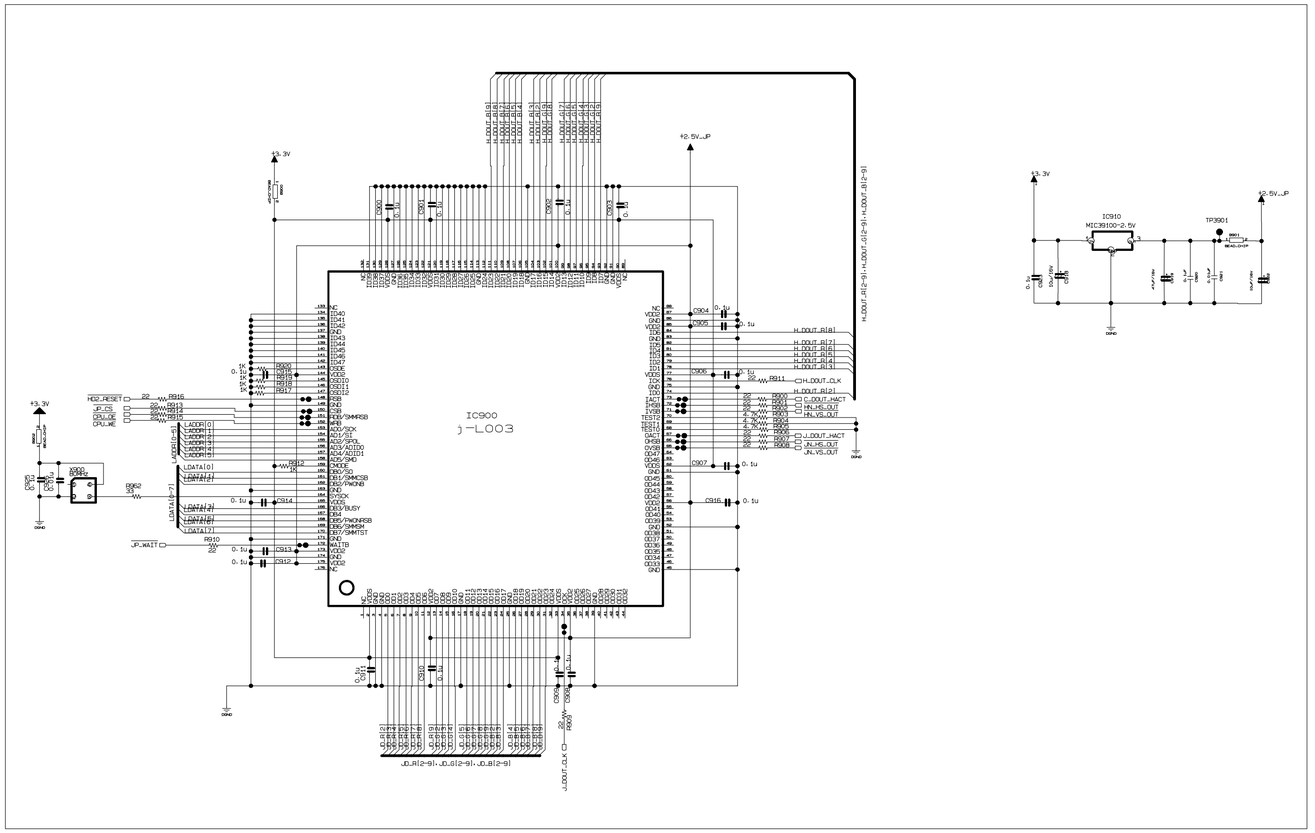


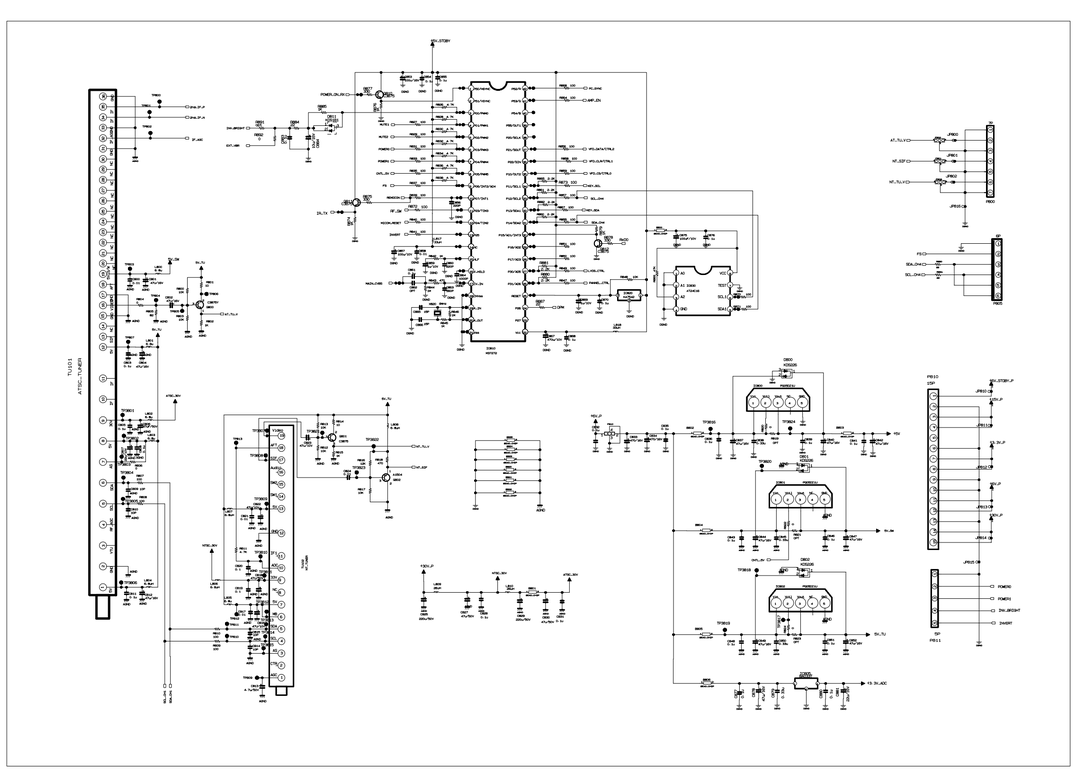
Digital B/D Outputs






IC500
CS8415A
IC700
TSB43CA43
IC900
j-L003
IC910
MIC39100-2.5V
TP3901
+3.3V
+2.5V_UP
GND
SPDIF_OUT
AL_SPDIF_IN
AL_SPDIFCLK
AL_SDOSEL
AL_SDOSDAT
HL_DAC_LRCK
HL_DAC_SCK
AL-LINE_LRCK
AL-LINE_SCK
H_DOUT_CLK
J_DOUT_CLK
C_DOUT_HACT
HN_HS_OUT
HN_VS_OUT
J_DOUT_HACT
JN_HS_OUT
JN_VS_OUT
Caution : These routing paths must be kept as W/S version


IC900
j-L003
+3.3V
+2.5V_UP
H_DOUT_CLK
C_DOUT_HACT
HN_HS_OUT
HN_VS_OUT
J_DOUT_HACT
JN_HS_OUT
JN_VS_OUT
H_DOUT_CLK
J_DOUT_CLK
HD2_RESET
JP_CS
OSCLOE
CPU_WE
JP_WAIT


IC700
TSB43CA43
+3.3V_STDBY
+3.3V
+2.5V_UP
IC910
MIC39100-2.5V
TP3901

30" /42" ANALOG CIRCUIT DIAGRAM 2

SOUND MSP 4450 BLOCK

IC904
MSP4440(C13)

3D COMB FILTER UPD68083 BLOCK

IC804
UPD64083

RGB SWITCHING CXA 2151 BLOCK

IC802
MC14053BD

IC801
CXA2151Q

A/V SWITCHING CXA 2069 BLOCK

IC803
CXA2069Q

IC604
MSP6624-B

PB17 12pin(2.0mm)

PB20 8pin(2mm)

PB21 4pin(2mm)

PB03
31PIN

PB04
31PIN

PB05
31PIN

PB10
19pin(2.0mm)

PB01
13pin(2mm)

TU801
RF_SPLIT

JA101
SPDIF_TX

JA102

JA103
COMP_SPDIF_RX

DVI_SPDIF_RX

JAV1
RCA_6P

PC AUDIO
PCA1

JSA1
S-JACK

JDAU1
RCA_4P

JRCA1
RCA_6P

2003.12.24 EDIT BY J.J.D

Jul., 2004
P/NO : 3828TSL104F
Printed in Korea